

114122.00153CA.seqlist.txt
SEQUENCE LISTING

<110> Xiao, Wenming

Dong, Gang

<120> LUNG CANCER DETECTION

<130> 114122-00153

<160> 40

<170> PatentIn version 3.1

<210> 1

<211> 5421

<212> DNA

<213> Homo sapiens

<400> 1
ccggatccg gtttttttgc ttttaaaag tgtaattcc ttttatttg catctgtta . 60
tgactaaaa aaatgactag ttattatgaa gacactactg ttgaagatgg atatttaac 120
atggagtttc aacaaaatta cttcttgaga cagagctgat gtgttttta aataacgtga 180
ttttaagcat atatttgaac aaaactaaaa catttagtat tatgaatatg aaaaaagatc 240
agtaaatcaa tgtactcttc taggctgaat taaggttagac tatttaaggt ttcaaaaaag 300
tttggctggg gcagaataag ttttacaaaa cccatgccat ccaaaattaa gatgacatgt 360
agcagcaaga agtattccaa tgtctcataa ccagttctcg caagcaatgt gtattccta 420
ctttaaggaa gtgtcaaaca aatagaaaaa tctggaagaaa tttactaagt gtaataaatt 480
agaggtaaat cgtataaaaa gaatttatgt ctcacaaaaa tattcacaag tgggagttt 540
cttttaccaa cttctcagag tccttcttagc cccctcttca cttctgaaag atgggattta 600
ccaaaatctg gtttacattt aacttttcag ggacacatga cctgaaaaga aagatgtcag 660
ataatactga cattgcctca tgcactttct ttgtatcagt cttcttctg taagtaatca 720
gaattgggtc caaatggcat agaatcaaac attatgtatc atgccaataa ccacttcctg 780

114122.00153CA.seqlist.txt
cccaacaaaa tttcatctt ctccagtaat gaagagggtgg acattcttgt tggactgttag 840
catcttgcc gcccgtcca caccaaccac ggcagctaac ctctggcat catatttggaa 900
gtagagaaca gtgcagggtcc acgtggcctc ttctccctcg ttgggtggctc tcagcatatt 960
acagattca ctgtaaaagt gtggatatgt cggcagttca tagaaaatca ggttcctgat 1020
gcctttatt gctgttagttt atttccaccc ccttccctcc tgtttctct ctctccttct 1080
ctctctctct ctctctctct ttttttccg ccctagctgg ggctgtgttg gaggagagga 1140
agaaagagag acagaggatt gcattcatcc gttacgttct tgaaatttcc taatagcaag 1200
accagcgaag cggttgcacc ct当地caatc ttgcaaagga aaaaaacaaa acaaaacaaa 1260
aaaaacccaa gtccccttcc cggcagttt tgccctaaag ctgccctctt gaaattaatt 1320
ttttccagg agagagatgt cttatcaggg gaagaaaaat attccacgca tcacgagcga 1380
tcgtctctg atcaaaggag gtaaaattgt taatgatgac cagtcgttct atgcagacat 1440
atacatggaa gatgggttga tcaagcaaat aggagaaaat ctgattgtgc caggaggagt 1500
gaagaccatc gaggcccact cccggatggt gatccccggaa ggaattgacg tccacactcg 1560
tttccagatg cctgatcagg gaatgacgta tgctgatgat ttcttccaag gaaccaaggc 1620
ggccctggct gggggAACCA ctatgatcat tgaccacgtt gttcctgagc ctgggacaag 1680
cctgctcgct gccttgcacc agtggaggga atgggcccac agcaagtcct gctgtgacta 1740
ctctctgcat gtggacatca gcgagtgca taagggcattc caggaggaga tggaaagcgt 1800
tgtgaaggat cacggggtaa attccttcct cgtgtacatg gcttcaaag atcgcttcca 1860
gctaacggat tgccagattt atgaagtact gagtgtgatc cggatattt ggcgcatacg 1920
ccaagtccac gcagaaaatg gcgacatcat tgcagaggag cagcagagga tcctggatct 1980
gggcatcacg ggccccgagg gacatgtgct gagccgaccc gaggaggatcg aggccgaagc 2040
cgtgaatcgt gccatcacca tcgccaacca gaccaactgc ccgctgtata tcaccaaggt 2100
gatgagcaa agctctgctg aggtcatcgc ccaggcacgg aagaaggaa ctgtgggtga 2160
tggcgagccc atactgcca gcttgggaac ggacggctcc cattactgga gcaagaactg 2220
ggccaaggct gctgcctttg tcacccccc acccttgagc cctgatccaa ccactccaga 2280
ctttctcaac tccttgctgt cctgtggaga cctccaggatc acggcagtg cccattgcac 2340
gtttaacact gcccagaagg ctgttagggaa ggacaacttc accctgattc cggagggcac 2400
caatggcact gaggagcggaa tgtccgtcat ctgggacaag gctgtggatca ctgggaagat 2460
ggatgagaac cagttgtgg ctgtgaccag caccaatgca gccaaggatct tcaaccttta 2520
ccccccggaaa ggccgcattt cttgtggatc cgtgcgcac ctggatctt gggaccccgaa 2580
cagcgtaaaa accatctctg ccaagacaca caacagctct ctcgagtaca acatcttga 2640
aggcatggag tgccgcggct cccactggt ggtcatcgc cagggaaaga ttgtcctgga 2700

114122.00153CA.seqlist.txt

ggacggcacc	ctgcgtgtca	ccgaaggctc	tggacgctac	attccccgga	agcccttccc	2760
tgatTTGTT	tacaagcgta	tcaaggcaag	gagcaggctg	gctgagctga	gaggggttcc	2820
tcgtggcctg	tatgacggac	ctgtgtgtga	agtgtctgtg	acgccaaga	cagtcactcc	2880
agcctcctcg	gccaagacgt	ctcctgccaa	gcagcaggcc	ccacctgtcc	ggaacctgca	2940
ccagtctgga	ttcagttgt	ctgggtctca	gattgatgac	aacattcccc	gccgcaccac	3000
ccagcgtatc	gtggcgcccc	ccgggtggccg	tgccaaacatc	accagcctgg	gctagagctc	3060
ctgggctgtg	cgtccactgg	ggactgggga	tgggacacct	gaggacattc	tgagacttct	3120
ttcttccttc	ctttttttt	tttgtttttt	tttttaagag	cctgtatag	ttactgtgga	3180
gcagccagtt	catggggtcc	cccttgggccc	cacacccgt	ctctcaccaa	gagttactga	3240
ttttgctcat	ccacttcct	acacatctat	gggtatcaca	cccaagacta	cccaccaagc	3300
tcatacaggg	aaccacacccc	aacacttaga	catgcgaaca	agcagcccc	agcgagggtc	3360
tccttcgcct	tcaacctcct	agtgtgttt	agcattcctt	ttcatggggg	gagggaaagat	3420
aaagtgaatt	gcccagagct	gccttttct	tttctttta	aaaattttaa	gaagttttcc	3480
ttgtggggct	ggggaggggc	cggggtcagg	gagagtcttt	ttttttttt	ttttaaatac	3540
taaattggaa	catttaattc	catattaata	caaggggttt	gaactggaca	tcctaattgt	3600
gcaattacgt	catcacccag	ctgattccgg	gtgggtggca	aactcatcgt	gtctgtcctg	3660
agaggctcca	caatgcccac	ccgcatcgcc	attctgttagt	cttcagggtc	agctgtttagt	3720
aaaggggcag	gcttgcgtta	ttggcctaga	ttttgctgca	gattaaatcc	tttgaggatt	3780
ctcttcctt	ttaccatTTT	tctgcgtgct	ctcaactctt	ctttctctct	ctagttttt	3840
aattcatgaa	tatTTTcgtg	tctgtctctc	tctctctctg	tgtttcctcc	agcccttgtc	3900
tcggagacgg	tgttttcctc	ccttggggca	ttatctttt	acctcccagg	tctacatttc	3960
atggtgtcg	ttgggtccgc	ctaaaggatt	tgagcgtttg	ccattgcaag	catagtgctg	4020
tgtcatcctg	gtccatgttag	gactggtgct	aaccacctgc	catcatgagg	atgtgtgcta	4080
gagtgtggga	ccctggccaa	gtgcaggaat	gggccatgcc	gtctcaccca	cagtatcaca	4140
cgtggaaccg	cagacagggc	ccagaagctt	tagaggtatg	aggctgcaga	accggagaga	4200
ttttcctctg	tgcaGTGCTC	tctggctaaa	gtcacggtca	aacctaaaca	ccgagcctca	4260
ttaacccaag	tgaaccaacc	aaagtccacca	gttcagaagt	gctaaagctaa	taggagtctg	4320
acccgagggc	ctgctgcttc	ctggtaagt	atcttttag	attctagaac	acatgggagc	4380
tttttatttt	cggggaaaaaa	ccgtatTTT	ttcttgcctca	attatttcta	aagacacact	4440
acatagaaag	aggccctata	aactaaaaaa	gtcattggga	aacttaaagt	ctattctact	4500
ttgccaagag	gagaaatgtg	tttatgaac	gatagatcac	atcagaactc	ctgtggggag	4560

114122.00153CA.seqlist.txt
gaaaccttat aaattaaaca catggccccc tttagagacca caggcgatgt ctgtctccat 4620
ccttccctct cctttctgt caccttccc cctagctggc tccttggac ctacccctgt 4680
ccttgctgac ttgtgttgca ttgtattcca aacgtgtta caggttctct taagcaatgt 4740
tgtatttgca ggctttctg aataccaaat ctgcttttg taaagcgtaa aaacatcaca 4800
aagttaggtca ttccatcacc acccttgtct ctctacacat tttgccttg gggatctggt 4860
tggggtttg gggttttgt tggtgttgc tattttgtat tttaaaggta aattgcactt 4920
ttaaaaaaat aattggttga cttaatatat ttgcttttt tctcacctgc acttagagga 4980
aatttgaaca agttggaaaa aaacaatttt tgttcaatt ctaagaaaca cttgcagctc 5040
tagtattcac ttgagtccttc ctgttttcc tgtaccgggt catggttaatt tttggttgtt 5100
ttggttgtt tctaaaaaaaa caagtaaaaa cctgacgatt tctgcagtga cttgatgctc 5160
taaaaacagtg taggatttaa gaatagatgg ttttaatcc tggaaattgt gattgtgacc 5220
catgagtgg a ggaactttca gttctaaagc tgataaagtgt tgtagccaga agagtacttt 5280
tttttgtaa ccactgtctt gatggcaaaa taattatggt aaaaaacaag tctcgtgtt 5340
attattcctt aagaactctg tgttatatta ccatggaacg cctaataaag caaaatgtgg 5400
ttgtttcaaa aaaaaaaaaa a 5421

<210> 2
<211> 887
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (139)..(139)
<223> n=A or C or G or T?U or unknown or other

<220>
<221> misc_feature
<222> (417)..(417)
<223> n=A or C or G or T?U or unknown or other

<220>

114122.00153CA.seqlist.txt

<221> misc_feature
<222> (494)..(494)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (512)..(512)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (519)..(519)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (528)..(528)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (534)..(534)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (585)..(585)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (602)..(602)

114122.00153CA.seqlist.txt

<223> n=A or C or G or T or U or unknown or other

<220>

<221> misc_feature

<222> (607)..(607)

<223> n=A or C or G or T or U or unknown or other

<220>

<221> misc_feature

<222> (609)..(609)

<223> n=A or C or G or T or U or unknown or other

<220>

<221> misc_feature

<222> (636)..(636)

<223> n=A or C or G or T or U or unknown or other

<220>

<221> misc_feature

<222> (641)..(641)

<223> n=A or C or G or T or U or unknown or other

<220>

<221> misc_feature

<222> (667)..(667)

<223> n=A or C or G or T or U or unknown or other

<220>

<221> misc_feature

<222> (681)..(681)

<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (690)..(692)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (694)..(695)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (697)..(697)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (704)..(704)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (708)..(708)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (711)..(711)
<223> n=A or C or G or T or U or unknown or other

<220>
Page 7

114122.00153CA.seqlist.txt

```
<221> misc_feature
<222> (728)..(729)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (734)..(734)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (736)..(736)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (741)..(741)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (755)..(755)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (758)..(758)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
```

114122.00153CA.seqlist.txt

<222> (760)..(760)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (770)..(770)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (773)..(773)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (783)..(783)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (795)..(795)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (798)..(800)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (802)..(802)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (807)..(807)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (825)..(825)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (834)..(835)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (839)..(840)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (845)..(846)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (850)..(850)
<223> n=A or C or G or T or U or unknown or other

114122.00153CA.seqlist.txt

<220>
<221> misc_feature
<222> (869)..(869)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (880)..(880)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (883)..(883)
<223> n=A or C or G or T or U or unknown or other

<400> 2
aagttaaaat tgttaatgac caaacattct aaaagaaaatg caaaaaaaag tttatTTca 60
agcCTTCGAA ctatTTAAGG aaAGCaaaAT cATTcCTAA atGCATATCA tttGTgAGAA 120
tttCTcatta atATCCTgNA atCATTcATT ttagCTAAGG CTTCATGTTG ACTCGATATG 180
TCATCTAGGA aAGTACTATT TCATGGTCCA AACCTGTTGC CATAGTTGGT aAGGCTTTCC 240
TTTAAGTGTG AAATATTTAG ATGAAATTT CTCTTTAAA GTTCTTATA GGGTTAGGGT 300
gtggggaaaAT gCTATATTAA TAAATCTGTA GTGTTTGTG TTTATATGTT CAGAACCCAGA 360
gtAGACTGGA TTGAAAGATG GACTGGGTCT AATTTATCAT GACTGATAGA TCTGGTNAAG 420
TTGTGTAGTA AAGCATTAGG AGGGTCATTc TTGTCACAAA AGTGCACACTA AAACAGCCTC 480
aggaggataa ATGNCTTGCT TTTCTAAATC CnCAGGGTNA ATCTGGNCC CAANCATATA 540
GACAGGCTTc TGGAAAGTTT GCAACTGGAA GCAGGAAACC CACCTATAG GTAAAATCC 600
CNGGCCNTNC TTGGGAAACC AGGTTAAAAA AGGCCNGGAA NAAAACCATG CCACCAGGG 660
GAATCCNGGG GGTTTGAGGT NCCTGGAAN NNCCNNAAA TGNGCCNCC NGGGAAGGGC 720
CATAAAGNNt TTTNANCcA NTCCGGCCTT ACCANAANGN AAACCCAAATN CCNTTTAAA 780
AANCCCGGt AAAANATNNN GNAAAGNTGG GGGGAAAACC CAAANTGGGA GGGNNCCANN 840
AAAANNGGTN CCCAAAAAAC CCAGGGGNC CAAAAAAAGN AANAAA 887

<210> 3

114122.00153CA.seqlist.txt

<211> 1348

<212> DNA

<213> Homo sapiens

<400> 3
ggcacgaggc aaagtctcac tgtgtcatgc aggctggagt gcagtgccat gatctcactg 60
caacctccat ctccgtctc agcctcctag ataactggga ttacaggtgc ccaccacat 120
gccccggctaa ttttgtatt tttggtagag acagagttc accaggttg tcaggctgg 180
ctcaaactct tgacttcagg taatccaccc accttggcct cccaaagtgc tgggattaca 240
ggcatgagcc accatcttca gccagatgat ttttttattt agagagtcaa atgctatttt 300
gttccccaaa tggcgctagt gaatcactag gagggtccc ctgataggcc atgttttagca 360
ctggttgcca gggattctct ttttgagaga gggaaagcaa aatgaatgga agtacccagc 420
tggaggttgc agggcttctg gaggatgctc tcgcatacgct cgaggtcctc tgcccacctc 480
ttctctccaa ggaaaatgag gactgcccct tccccctgca ggattggccc ccagcctgcg 540
catgcacccct cctttgccc aagtggggag cacagaggcg gagaggaatc ctttaccaca 600
cccacggccc agcttgctca cgagtgtcac ctctgtgacg gtcaccactg ctcccttgga 660
gggccacttg agttactgtt gtttcctcgc ctgctggctt gatgagcacc gatgggtgg 720
tctgaccccg aggggcagag ctgtcggta ctgaggactg gactgtggtg accatgccga 780
tttgctcagg gagaacgttg caatgcaccc agcagctcct ggctctgcag gcccacagc 840
ctggggccct gtgatccctt ggtttctcc attggggcgg agtcgggggt ggagggagct 900
ggccacaacc cactgctctg atgggtggtt tgtccaagga tgctgaatgt aatgcctgg 960
caatgtggaa gcccattgagg ttgcccaggg aagcctccaa aagctggat gcttgagggt 1020
atccaagttt aaaaagacaa aatctgacca tcagccagtg acagtcctgg caaatgaagg 1080
tggggcgggg cagtgggggg tgggagaagg tgaatgattt attattccac cccgaggttt 1140
gctgggggtga gggaaagaat cgatgctgct ttgggaactg aaggttttc tggtggaaag 1200
gcccctctgg tttggagag aaagacaagt tatgagtagc tgctaccctg gaacgggtgg 1260
cagagagcct actaggaaat gtgcagaata aactatTTT tgaaggaaaa aaaaaaaaaaa 1320
aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 1348

<210> 4

<211> 1989

<212> DNA

<213> Homo sapiens

<400>	4					
gggggtttga	agactgacag	ccagcctggc	tcattctcat	tattggctag	ttagcttct	60
ttatcaacct	gctcaactcg	aatgtgtgc	cctcagccag	agagtaagaa	agcccaaatc	120
tgttacagct	tctaaaaaaaa	tagatttcta	atttgcctta	ctcatgttag	gaggcattatc	180
tttgaaggta	aaacatagt	tgatcattgt	taaactccc	ggcttgttgt	agcagaagag	240
atcatttctg	gaggcittag	caatgaaatt	tagcattata	agagagattg	gacaaaccag	300
tccaaagtgg	tccgagttct	taaatccagg	taggaaactc	actcttcttt	cttctctgga	360
cctaatttggg	cattgggctt	tagtgagacc	acagaccagg	cccgctctc	ctgtaggctt	420
ttaattcaat	ggcaactcta	tttcaaagaa	taaaagcctt	tggagagttg	cggcagttct	480
gggggcgggc	tcaggagagt	ccatagatca	gccgtaactg	gaacgtagaa	tctacgtctg	540
cctctgaatg	gacttccac	ctcctctc	ttgctctgat	gcttcctct	gggcctctcc	600
atgcccagg	tggctttca	tccttgacag	gctggtaatg	tgctggccac	ctccagctcc	660
tgcatcgagt	ctgtaaacca	gagctggttc	tcatggcctt	cgtcacgata	ccaggatacg	720
gaggggagcc	cagggccatc	cataccacc	ccagggtaac	ggggctggcc	tggcattagt	780
cattatttag	tttccaggcc	aaccatccag	atagagattc	cctcttccct	ttgagcagtg	840
ctctcaagag	ctccgtgcct	gtccacaatg	acctagagtg	catcctgctc	attgtcagtg	900
tagccccctg	cccctatatt	catccaggat	acttggaaatg	gctaaaatag	gaagggattc	960
ggctttcaac	tttgctacca	tctccctga	agcaggaaaa	tgaacatgga	cttaaatgtt	1020
ctttgaaaaa	accaaagttt	taagattgc	tgtgtgatga	agtgacaggg	agggccggag	1080
tcagcaggtg	ccagactttc	tgttctgtct	gccatgggtt	tgtccagctc	aggtagctct	1140
aggagcacca	tcctgcccata	gcagagccca	ggccttgccc	tcatgaagca	tcattgaaat	1200
agcaggagca	tgttgatttc	ttggtaggt	tgcattataa	taacaagagt	cagaacatta	1260
attcgaaaca	acttgcagta	tgcatttctt	cacaccagta	cattcttaag	tgtacttgg	1320
tataaggaat	aacataaaact	aatctgtacc	tttatataata	tgtgtgtgta	cataataaca	1380
tatataaaact	gtatagtgt	catggtaatg	atttattgct	atgccccaga	tccttaatgt	1440
agttctcatc	ctccgcata	cctcagccac	gagcgggtga	ctgactgttc	cctgatgatt	1500
tggcccacct	cctgtgtttt	gacctctagg	gaggagggtt	ttggtcatac	tctccttatac	1560
ctcgtgcaca	gaaatgctca	gggtccccat	gtgcctgttg	ttcagccctc	tctcttgg	1620
cctttctgag	catgtggtcc	ttccccaggc	tgtggacag	ctgccttccc	acgaaagtgt	1680
aaagcagtat	taagatcatt	actgcata	ccctaaaaac	ccaagtttc	tattccctta	1740

114122.00153CA.seqlist.txt
ggacagaaaa ttgcatgtga ggtggataa tcgagttca gtgaccacg tcagttcac 1800
attaaagcca gaccccatga tcaaattcca caaaatggaa ataaaactca aatttctta 1860
gcattgtgt aataaatctg aatgtgtta actttgact ggtaatttc tgtatattt 1920
gaatatttgg gttaaaaata aaacagactg gactttgtta cctgacctac aaaaaaaaaa 1980
aaaaaaaaaa 1989

<210> 5
<211> 879
<212> DNA
<213> Homo sapiens

<400> 5
ccaaaagtta actggctctc cttcctcaca cagttcatca taacccaacc ccccaccccc 60
gggtcatgaa aatcacagaa cttataaaca cattgaaccc tagatctcag gcttcctgac 120
ctaccgccag tggcccttg ctggccaccc tatagggtcc tccttccctg gcagcccccc 180
atgtggaga atacctgatt ctcccaatct gcagtggag agcttgctg aattccatcc 240
caaagtcaaa catgggcaag aggtgaggat ttcactttt ccctcaagtc cgatttgtct 300
gtgattttaa actaactgtg tatgtattga tggggaaatggaa attgtttgaa ttttaaagtg 360
ataatagtac ttaatgttat ccagtattgt tcattaaatg gtgttacccct aaagctgcac 420
ttgggatttt tacctaacgc tttactgatt ctctcaagca catggcaaag tttgatttgc 480
actccgttca tttctgacac gttttgctgc ctccctacctt tctaagcgtc atgcaaattc 540
gagaatggag aaggacgctg ccggccctg agcggtgtgg agagggcggaa aggtggactc 600
cagcgcagct tgaggggctg aggacggagg ctgcagcatc tgtgtcggttc tactgagcac 660
gcttctctgc ctcgctcctg actcagcact ttgttcaactg gctcagcagt tatgtttaca 720
catcattttt atgttctgc tttgttaattc atgtttgaga tgggtggcca ctgtacagat 780
atttattacg cttccagac tttctgaata gattttttg aataaacatg gttttatgaa 840
gtgtaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 879

<210> 6
<211> 8500
<212> DNA
<213> Homo sapiens

114122.00153CA.seqlist.txt

<400>	6					
cgtcatggcc	gtcagcacccg	cgttcccgtc	ctcttccgct	tggccccaga	aagtttcggt	60
tctgcccggc	ggtgaccca	cgagcgcgtg	ccaccatgga	gtctgaccac	tgctgagcag	120
acagccaccg	agggccaaa	ttctgagcct	tcctctggac	ccagggcagga	gacatacaga	180
caagaaaggc	aaactcacca	tggcctccac	caatgcagag	agccagctcc	agagaatcat	240
ccgagacttgc	caagatgctg	tgacagaact	aagcaaagaa	tttcaggaag	caggggaacc	300
catcacggat	gacagcacca	gcttgataa	attttcttat	aaacttgagt	atctcctgca	360
atttgatcag	aaagagaagg	ccaccctcct	gggcaacaag	aaggactact	gggattactt	420
ctgtgcctgc	ctggccaagg	tgaaaggagc	caatgatggg	atccgatttgc	tcaagtctat	480
ctcagagctc	cgaacatcct	tggggaaagg	aagagcattt	attcgctact	ccttggtgca	540
ccagaggttg	gcagacaccc	tacagcagtgc	cttcatgaac	accaaagtga	ccagtgcactg	600
gtactatgca	agaagcccct	ttctgcagcc	aaagctgagc	tcggacatttgc	tgggccaact	660
ctatgagctg	actgagggttc	agtttgcacct	ggcgctcgagg	ggcttgact	tggatgctgc	720
ctggccaaaca	tttgccagga	ggacgcgtgac	cactggctct	tctgcttacc	tgtggaaacc	780
ccctagccgc	agctccagca	tgagcagctt	ggtgagcagc	tacctgcaga	ctcaagagat	840
ggtgtccaaac	tttgaccta	acagccccct	aaacaacgag	gcattggagg	gctttgatga	900
gatgcgacta	gagctggacc	agttggaggt	gcgggagaag	cagctacagg	agcgcatgca	960
gcagctggac	agagagaacc	aggagctgag	ggcagctgtc	agccagcaag	gggagcaact	1020
gcagacagag	agggagaggg	ggcgcaactgc	agcggaggac	aacgttcgccc	tcacttgctt	1080
ggtagctgag	ctccagaagc	agtgggaggt	cacccaggcc	acccagaaca	ctgtgaagga	1140
gctgcagaca	tgcctgcagg	ccctggagct	aggagcagca	gagaaggagg	aggactacca	1200
cacagccctg	cggcggctgg	agtccatgct	gcagcccttgc	gcacaggagc	ttgaggccac	1260
acgggactca	ctggacaaga	aaaaccagca	tttagccagc	ttcccaggct	ggctagccat	1320
ggctcagcag	aaggcagatt	cggcatcaga	cacaaaggcc	cgccaagaac	ctattcccag	1380
tgtatgcggcc	caggagatgc	aggagctagg	ggagaagctt	caagccctag	aaagggagag	1440
aaccaagggtc	gaggaggatca	acagacagca	gagtgcctaa	ctggAACAGC	tggtaagga	1500
gcttcagctg	aaagaggatg	cccggccag	cctggagcgc	ctggtaagg	agatggcccc	1560
actccaggag	gagttgtctg	ggaaggagaca	ggaggcagac	cagctctggc	gacggctgca	1620
ggagttgctg	gcccacacga	gctcctggga	ggaggagcta	gcagagttga	ggcgggagaa	1680
aaaacagcaa	caggaggaga	aggagctgct	ggagcaggag	gtcaggtctc	tgacccggca	1740
gctgcagttc	ctggagaccc	agctggcaca	ggtgagccaa	catgtgagtg	acctggagga	1800
gcagaagaag	cagtcattc	aggacaaaga	ccacctcagc	cagcaggtgg	gtatgctcga	1860

114122.00153CA.seqlist.txt
gcggcttgct gggccgcctg gcccagaact gccagtggca ggtgagaaga atgaggccct 1920
ggtcctgtg aactccagtc tgcaagaggc ctgggggaag ccagaggagg agcagagggg 1980
cctgcaggag gcacagttag acgataccaa ggtgcaagag ggcagccagg aggaagagct 2040
ccggcaggcc aacagggagc tggagaagga gctacagaat gtggcgggc gtaaccagct 2100
cctggagggc aagctgcaag ccctgcaggc cgattaccag gctttgcagc agcgggaatc 2160
agccatccag ggctccttgg cctccctgga ggccgagcag gccagcatcc ggcacttggg 2220
tgaccagatg gaggcgagct tgctggctgt aaggaaggcc aaggaggcca taaaagccc 2280
gatggcagag aaggaggcca ttctacagag caaggaggc gagtgcagc agctgcggga 2340
ggaggtggag cagtgcagc aactggcaga agcccgac agagagctt gggctctcga 2400
gagccagtgc cagcagcaga cccagctgat tgaggtcctc acagcagaga aaggccaaca 2460
gggagttggc ccacccactg acaatgaagc ccgtgagctg gctgccagc tagccctgtc 2520
tcaggcgcag ctggaagtcc atcaggggg agtccaaacgg ctgcaggctc aggtggtgga 2580
cctccaggcc aagatgcggg cagccctgga tgaccaggac aaggtgcaga gccagctaag 2640
catggctgag gccgtcctga gggagcacaa aacccttgc cagcagctga aggagcagaa 2700
tgaagccctt aacagagccc atgtccagga gctgctgcaa tgctcggagc gtgaagggc 2760
actgcaggag gagagggccg atgaggccca gcagagggag gaggagctgc gggccctgca 2820
ggaggagctg tcccaggcca aatgcagctc cgaggaagca cagctggagc acgctgagct 2880
gcaagagcag ctgcaccggg ccaacacaga cacagctgag ctggccatcc aggtttgcgc 2940
actgaccgtg gaaaaggagc gagtgagga ggcactggcc tgtgctgtcc aggagctcca 3000
ggacgccaaa gaggcagcct caagggagcg agagggcctg gagcgcctaa tagctggct 3060
gcagcaagag aaggagagct tgcaggagaa gctgaaggcg gccaggcag cagccggctc 3120
actgcctggc ctgcaggccc agctcgccca ggcagagcag cgggcccaga gcctccaaga 3180
ggctgcacac caggagctca acaccctcaa gttccagctg agtgcgtaaa tcatggacta 3240
ccagagcaga cttaagaatg ctggtaaga gtcaagagc ctcaggggcc agcttgagga 3300
gcaaggccgg cagctgcagg ctgctgagga agctgtggag aagctgaagg ccacccaagc 3360
agacatggga gagaagctga gctgcactag caaccatctt gcagagtgc aggcggccat 3420
gctgaggaag gacaaggagg gggctgccct gcgtgaagac cttagaaagga cccagaagga 3480
actcgaaaaa gccacaacaa aaatccaaga gtattacaac aaactctgcc aggaggtgac 3540
aaatcgtgag aggaatgacc agaagatgct tgctgacctg gatgacctca acagaaccaa 3600
gaagtatctc gaggagcggc ttagatagct gctcaggagc aaggatgctc tctggcagaa 3660
gtcagatgcc ctgaaattcc agcagaagct cagtgcgtag gagagatggc tcggagacac 3720
agaggcaaac cactgcctcg actgtaaagcg ggagttcagc tggatggtgc ggcggcacca 3780

114122.00153CA.seqlist.txt

ctgcaggata	tgtggccgca	tcttctgtta	ctactgctgc	aacaactacg	tcctgagcaa	3840
gcacggtgtgc	aaaaaggagc	gctgctgccg	agcctgtttc	cagaagctca	gtgaaggccc	3900
tggctccct	gatagcagtg	gctcaggcac	tagccaggga	gagcccagcc	ctgcactgtc	3960
accagcctca	cctggggcccc	aggccacagg	aggccaagga	gcaaatacag	actacaggcc	4020
accggacgac	gctgtgtttg	atatcatcac	agatgaggaa	ttgtgccaga	tacaggagtc	4080
cggctccct	ttgcctgaaa	caccactga	aactgattct	cttgacccaa	atgcggctga	4140
acaggatact	acatcaacct	cgctaacgcc	tgaggacact	gaagacatgc	ccgtggggca	4200
ggattcggaa	atctgcctgc	tgaagtctgg	agaactgatg	atcaaagtac	ccctcacagt	4260
ggatgagatc	gccagcttcg	gggagggtag	cagggagctg	tttgtgaggt	ccagcaccta	4320
cagcctgatc	cccatcactg	tgcccgaggc	agccctcacc	atcagctggg	tcttctcctc	4380
tgaccccaag	agcatctcct	tcagtgtggt	cttccaggag	gccgaggaca	caccgctgga	4440
tcagtgtaa	gtcctcattc	ccacgaccccg	atgcaactcc	cacaaggaga	acatccagggg	4500
ccagctcaag	gttcgcacac	ccggcatcta	catgctcatc	ttcgacaata	ccttctcaag	4560
gtttgtctct	aaaaaggtat	tttatcaatt	gacggttgat	cggcctgtga	tctacgatgg	4620
aagtgatttc	ctgtagcttc	agcacctcag	taacttcact	tcatccacag	gaaacactgc	4680
tcttcctcac	ctgtcacata	aagcattttt	ttaaaaagtc	agctgctcca	aaatcatcaa	4740
ctcagccct	gggctgcccc	tcagaggcgg	tgtctgggg	ggactttgtg	ctcagcactc	4800
tgcaccggcc	actcttagcc	cccgaggcgt	tgaagggctc	aggcaatgtt	tccattaagt	4860
agagactcag	ctgttgtcac	acccaaaggg	atgctctgcc	aaaggtttaa	acacccagga	4920
gaccatcagc	cttccttggg	agcacagttg	actacaggcc	tcttgtggag	agtttcacgg	4980
gcaggggtga	ttccaacttc	tgcctgtgga	gagattttct	gccctgcccc	accagggccc	5040
tgcatgtgg	agactgagct	gggtgcactg	gccataccct	gtgaatcctc	gggctgtgac	5100
gccctcaggt	actcctggga	aaaggaggt	cacagccatc	atgcgagtgc	gtgccagggg	5160
accccccgg	gatcctgacc	agctcctcca	gtcatgctct	tgtccctcac	tgccccagta	5220
agctggaggc	tgctccagaa	ctcagcagtg	ttggaggggc	ctctaagctg	cactctttt	5280
ctggcccttt	tgtctggctg	attctgtcct	caaataaaagc	ccttcactca	gccagacctc	5340
tccacagctc	aaagcattgc	cctaagaatc	agaagtaaag	ataatccaag	agcaaaaaccc	5400
actgtacttg	gggcctgcaa	tggctgtgt	tacactacat	ctaattgccc	aatgccagcc	5460
agtgtggatg	ttgtgaccac	agagcaggat	tgtgcattgg	ctttagagct	actcctcagc	5520
tgtatggccca	ctttgttta	tataaataag	agcttctgcc	ccacctgcag	acatgtttac	5580
taatgatcat	agccaggatt	agaaccactt	tcaaacattg	gggccttctt	aacaaaagtc	5640

114122.00153CA.seqlist.txt
tttgataact taagaaccaa agtaacagag taaacagagg catgatggat ccctgggccc 5700
caactccctc ctgacaggtt ccccaacagc ccatttgcgg acttcccact gctcagccca 5760
caccagacct ccaggagaca tcccccttg aggagagag atccctgtcc ctattcccg 5820
acaagaatta tttaatcttc cctgttctct gtggccttt tcttcccaa caacagatag 5880
ctcaccttgg acagctcttc gtccttggtt catggAACCA gctgcctgca gtcaggcccc 5940
aggttcttcc atgggtgaac agagcatctg acaaaaagggtc ccagttggc caggggtgag 6000
ggagagagca ccagacaggc tatccgagaa tctgagagct gggccggca attcctccag 6060
ctacccttgt gacctaagtc cagtcacaca tttcccaaag tttcttttg tcataaccct 6120
ggtctggctg gttttgaggg cttgagaatg ggtcagggac tccaggccaa gtccaacaga 6180
gaccccaaac ccaccacaca ccagcagcca caacctcacc accaacaag aggactttt 6240
tggggccaca agtaagaggt catttctgga atggactcag acctttaaac aggagagtt 6300
agcacttcca gtcagttttt aagcaaggca tggggAACAG ggaatagaac ctttcaaaga 6360
ggttgcccag agaaaaagctg ggcctttgc attcggcttc cttggagcag cctttctgg 6420
cagaaagcca tcaggtgctc aatcatcttc tcctggccaa ggctctgacc atgcttagta 6480
ctggaataga ggtggccagg ccccccagcga ctcttcttgg cctgatgttt gtcctcacag 6540
gcatgccacg tggcctgaga tgattcagaa caaatcatgc taactttgaa tccatccagc 6600
cacttgcaaa tgataatcag aagtcaagtt gttcactgtt agaaaagaaac taacaaaaga 6660
gaacccagag caatctagaa tctttgagtg cttggcttcc caaggatact gcggagactc 6720
tggccaagct gatgacccctc tgaagtgtca ctggcaccat atgcaacaag aaccaccatt 6780
caactgagtag ctaatgggtt tggggccctgg gacattccat ctgaggtcct tcctgaacat 6840
gtcactccac agcagaggac cggttgcagc ttacccagaa ccactccctc aggagagctg 6900
gatgttttgc gtgcaacacc ttgagcaactg actgctattt ttcaaaaaaa gcctttgctg 6960
cattcggagg actgccccgt gccctgaggt gacttcctaa ctatgtggtt tcattagcga 7020
atttatTTT tgggctgggt ggacattgtt atttgttag gttgctgttt aagctcaagt 7080
ttgctgtgct ctctgcagct acaaaaacatc ttggcatatt taagagtggc ttttataaat 7140
agctttattt tgatattaaat cagattccca actttactga gaattaaagga ctggggtact 7200
ttaaagaaat gcaaataagca attgaagaac cactgctgca ggtggtagcc ctggcttagac 7260
tgaattacac tagaaatcag ccagaaggaa gcgtccttgg gatcccagat cactttttt 7320
ttttttttt ttAAAAGGG gcagccctt gatggctcat ctctctgaat aacagttacg 7380
tcttcataatc gataccagat gccttcttca tcatgccact gaagccactc accacccatc 7440
agaacatgcc aacctctgtc agattcaatt acccacaac aaggaggcac gtttggcaca 7500
aagtgttgc tcctcagggtcc aagtggactc tacagagtgc ttgaccccaa cacactggat 7560

114122.00153CA.seqlist.txt

tccagggtgga	ctggaccaag	agcaggcaaa	gacacggaa	ctgaaaaact	ccacagggtt	7620
tggagaatag	aatgaaaag	ccacgtcata	taactcaaga	ataaaatggtg	ttttggaaat	7680
tttaaaatta	tcatcgagg	tggtgaaact	atttcaggcc	caaatgaaag	gaaatcgcca	7740
gttggggatg	aatcacaga	gcctgtgtt	tatgatatgg	ttggatgtcc	actgatgaaa	7800
ttttaaagga	gtttcattt	taaaagtgcg	catgattcta	catatgagaa	ttcttttaggc	7860
caagaaactg	tccttggctc	agaggtgtt	ggaattaaag	cagagagaag	ccattcgtga	7920
tgcttagaac	caaggatggt	catgtacaca	aagaccatcg	agacggccat	tcttgttac	7980
aaaacactta	ccaagaaagc	acttttagg	ggaactttag	taagttcttc	tcatttcatt	8040
atgtttcttc	caaggaaaca	ggagagactg	aattaataat	tctcttttc	ctcttaagca	8100
cttttaaaat	aataaaagtac	atcttgaat	ttggggaggc	atctctgatt	taaaaaaaaga	8160
aaaaggctgc	ttgatgtatg	ttatgcagag	acactctgcc	tctggggct	gcagagcaat	8220
acccaaggcct	catttggaaag	gctcaacatt	tggaattgca	ctttaattga	ttaatcctca	8280
attcatgtgg	ctttacggga	tggtgggtct	gggaccccaa	ttcattctta	tctgccaaag	8340
aattatctag	aagcacatca	aataccagca	ccccacctgc	acaatgggg	tggaaaactt	8400
ttgtatccct	aagcatatta	tttatagtg	tctgccatgc	catgtggaaa	tactttattt	8460
ttaacctcag	gatttaaata	aagtaaacac	tatgacattt			8500

<210> 7

<211> 6289

<212> DNA

<213> Homo sapiens

<400> 7	gttggatttc	tctaatggaa	aatgttattc	agaaggatga	agataatatt	aaaaattcca	60
	taggttacaa	ggcaattcat	gaataccctc	agaaatataa	gggtttaag	atagacatta	120
	actgtaaaca	gctgacagtg	gatttgtga	accagtccgt	gctaçaaatc	agcagtcagg	180
	atgtggaaag	taagcgtagt	gataagactg	atttgctga	gcaacttgg	gcaatgaata	240
	aaagttggca	aattctgcaa	ggtctagtaa	ctgagaagat	ccagctgtt	gaaggcttat	300
	tggaatctt	gtcagaatat	gaaaataatg	tacaatgtct	gaaaacatgg	tttggaaaccc	360
	aggaaaagag	actaaaacaa	cagcatcgaa	ttggagatca	ggcttctgtt	caaaatgcac	420
	tgaaagactg	tcaggatctg	gaagatttg	ttaaagcaaa	agaaaaagaa	gtagagaaaa	480
	ttgagcagaa	tggacttgct	ttgattcaga	acaagaaaga	agacgtctct	agcattgtca	540

114122.00153CA.seqlist.txt

tgagcacact	gcgagagctc	ggccaaacct	gggcaaattt	agatcacatg	gttggacaat	600
taaagatact	gctgaaatca	gtgcttgacc	aatggagtag	tcacaaagtg	gccttgaca	660
agataaaacag	ttacctcatg	gaggccagat	actcttttc	ccgattccgt	ctgctgactg	720
gctccttaga	agctgtcaa	gttcaggtgg	acaatcttca	gaatctccaa	gatgatctgg	780
aaaaacacga	aaggagctt	cagaaattt	gctctatcac	caaccaatta	ttaaaagagt	840
gtcaccacc	cgtgacagaa	actcttacca	atacactgaa	agaagtcaac	atgagatgga	900
ataacttgct	ggaagagatt	gctgagcagc	tacagtccag	caaggcccta	cttcagctt	960
ggcaaagata	caaggactac	tccaaacagt	gtgcttcgac	agttcagcag	caggaggatc	1020
gaaccaatga	gctgttgaag	gcagccacaa	acaaggacat	tgccgatgat	gaggttgcca	1080
catggattca	agattgcaac	gacctcctca	aaggactggg	cacagttaaa	gattccctct	1140
ttgttctcca	ttagctggg	gagcaactga	agcaacaagt	ggatgcttcc	gcagcatcag	1200
ctattcaatc	ggatcaactc	tcttgagtc	aacacttgc	tgccctggag	caagctctct	1260
gcaaacagca	gacttcatta	caggctggag	ttcttgatta	tgaaaccttt	gccaaagagtt	1320
tagaagctt	ggaggcctgg	atagtggaa	ctgaagaaat	actacaaggg	caggacccta	1380
gccactcatc	tgacctctcc	acaatccagg	aaaggatgga	agaacttaag	ggacagatgt	1440
taaaattcag	cagcatggct	ccagatttag	accgtctaaa	tgagcttgg	tataggttac	1500
ccttgaatga	taaggaaatc	aaaagaatgc	agaatctgaa	ccgcccattgg	tctctgatct	1560
cctctcagac	tacagaaaga	ttcagcaagt	tgcagtcatt	tttgctacaa	catcagactt	1620
tcttggaaaa	atgtgaaaca	tggatgaaat	tcctagttca	gacagaacaa	aagttagcag	1680
tagagattc	aggaaattat	cagcacctt	tggaacagca	gagagcacac	gagttgtttc	1740
aagccgagat	gttcagtcgt	cagcagattt	tgcactcaat	cattattgat	ggcaacgtc	1800
ttctagaaca	aggtcaagtt	gatgacaggg	atgaattcaa	cctgaaattt	acactcctca	1860
gtaatcaatg	gcagggagtg	attcgcaggg	cccagcagag	gcggggatc	attgacagcc	1920
agattcgcca	gtggcagcgc	tatagggaga	tggcagaaaa	gcttcgtaaa	tggttgggtt	1980
aagtgtccta	cctccccatg	agtggctcg	gaagtgttcc	tataccactg	caacaagcaa	2040
ggaccctctt	tgtgaagtg	cagtcaaag	aaaaagtgtt	tctgcggcaa	caaggcagct	2100
acatcctgac	tgtggaggct	ggcaagcaac	tccttctctc	ggcggacagt	ggcgctgagg	2160
ccgccttgca	ggccgaactc	gctgaaatcc	aagagaaatg	gaaatcagcc	agcatgcggc	2220
tggaagaaca	gaagaaaaaaaa	ctagccttct	tgttggaaaga	ctggggaaaaa	tgtgagaaag	2280
gaatagcaga	ttccctggag	aaactacgaa	ctttcaaaaa	gaagtttgc	cagtctctcc	2340
cggatcacca	tgaagagctc	catgcagaac	aaatgcgtt	caaggaatta	gaaaatgcag	2400
ttgggagctg	gacagatgac	ttgaccagt	tgagcctgct	gaaggacacc	ctctctgcct	2460

114122.00153CA.seqlist.txt

atatcagtgc tcatgtatc tccattctta atgaacgcgt agagcttctg caaaggcagt	2520
ggaaagaact atgccaccag ctctccttaa ggcggcagca aataggtgaa agattgaatg	2580
aatgggcagt cttcagtcaa aagaacaagg aactctgtga gtggttgact caaatggaaa	2640
gcaaagtttc tcagaatgga gacattctca ttgaagaaat gatagagaag ctcagaagg	2700
attatcaaga ggaaattgct attgctcaag agaacaataa acagctccaa caaatgggag	2760
aacgacttgc taaagccagc catgaaagca aagcatctga gattgaatac aagctggaa	2820
aggtcaacga ccggtggcag catctcctgg acctcattgc agccagggtg aagaagctga	2880
aggagaccct ggtagccgtg cagcagcttg ataagaacat gagcagcctg aggacctggc	2940
tcgctcacat cgagtcaagc ctggccaagc caatagtcta cgattcctgt aactcgaaag	3000
aaatacagag aaagcttaat gagcagcagg agcttcagag agacatagag aagcacagta	3060
caggtgttgc atctgtcctc aacctgtgtg aagtccctgct gcacgactgt gacgcctgt	3120
ccactgatgc cgagtgtgac tctatacagc aggctacgag aaacctggac cggcggtgga	3180
gaaacatttg tgctatgtcc atggaaagga ggctgaaaat cgaagagacg tggcgattgt	3240
ggcagaaatt tctggatgac tattcacgtt ttgaagattt gctgaagtct tcagaaagga	3300
cagctgctt tcccagctct tctggggta tctatacagt tgccaaggaa gaactaaaga	3360
aatttgaggc tttccagcga caggtccacg agtgcctgac gcagctggaa ctgatcaaca	3420
agcagtaccg ccgcctggcc agggagaacc gcactgattc agcatgtac ctcaaacaga	3480
tggttcacga aggcaaccag agatggacca acctgcaaaa gcgtgtcacc tccatcttgc	3540
gcagactcaa gcattttatt ggccagcgtg aggagttta gactgcgcgg gacagcattc	3600
tggtctggct cacagagatg gatctgcagc tcaactaatat tgaacattt tctgagtgt	3660
atgttcaagc taaaataaaag caactcaagg cttccagca gaaatttca ctgaaccaca	3720
ataagattga gcagataatt gcccaaggag aacagctgat agaaaagagt gagcccttgg	3780
atgcagcgt catcgaggag gaactagatg agtccgcac gtactgccag gaggtcttcg	3840
ggcgtgtgga aagataccat aagaaactga tccgcctgcc tctcccagac gatgagcacg	3900
acctctcaga cagggagctg gagctggaag actctgcagc tctgtcggac ctgcactggc	3960
acgaccgctc tgcagacagc ctgcttc tccatctc cacagccttc ctccaaatctc tccctctcg	4020
tcgctcagcc cttccggagc gagcggtcag gacgagacac cccagcttagt gtggactcca	4080
tccccctgga gtggatcac gactatgacc tcagtcggga cctggagtct gcaatgtcca	4140
gagctctgcc ctctgaggat gaagaaggta agatgacaa agatttctac ctccggggag	4200
ctgttgcctt atcaggggac cacagtccc tagagtaca gatccgacaa ctgggcaaag	4260
ccctggatga tagccgcttt cagatacagc aaaccgaaaa tatcattcgc agcaaaactc	4320

114122.00153CA.seqlist.txt

ccacggggcc	ggagctagac	accagctaca	aaggctacat	gaaactgctg	ggcgaatgca	4380
gttagcgtat	agactccgtg	aagagactgg	agcacaaaact	gaaggaggaa	gaggagagcc	4440
ttcctggctt	tgttaacctg	catagtaccg	aaacccaaac	ggctgggtgt	attgaccgat	4500
gggagcttct	ccaggcccag	gcattgagca	aggagtttag	gatgaagcag	aacctccaga	4560
agtggcagca	gtttaactca	gacttgaaca	gcatctggc	ctggctgggg	gacacggagg	4620
aggagttgga	acagctccag	cgtctggaac	tcagcactga	catccagacc	atcgagctcc	4680
agatcaaaaa	gctcaaggag	ctccagaaag	ctgtggacca	ccgcaaagcc	atcatcctct	4740
ccatcaatct	ctgcagccct	gagttcaccc	aggctgacag	caaggagagc	cgggacctgc	4800
aggatcgctt	gtcgcagatg	aatgggcgt	gggaccgagt	gtgctcttg	ctggaggagt	4860
ggcggggcct	gctgcaggat	gccctgatgc	agtgccaggg	tttccatgaa	atgagccatg	4920
gtttgcttct	tatgctggag	aacattgaca	gaaggaaaaaa	tgaaattgtc	cctattgatt	4980
ctaaccctga	tgcagagata	cttcaggacc	atcacaaaaca	gcttatgcaa	ataaagcatg	5040
agctgttgg	atcccaactc	agagtagcct	cttgcaaga	catgtttgc	caactactgg	5100
tgaatgctga	aggaacagac	tgtttagaag	ccaaagaaaaa	agtccatgtt	attggaaatc	5160
ggctcaaact	tctttgaag	gaggtcagtc	gtcatatcaa	ggaactggag	aagttattag	5220
acgtgtcaag	tagtcagcag	gatttgtctt	cctggcttcc	tgctgatgaa	ctggacaccc	5280
cagggtctgt	gagtcccaca	ttaggaagga	gcacccaaa	cagacagaaa	acgccccag	5340
gcaagtgtag	tcttcacag	cctggaccct	ctgtcagcag	tccacatagc	aggtccacaa	5400
aaggtggtc	cgattccctcc	ctttctgagc	cagggccagg	tcggccggc	cgcggcttcc	5460
tgttcagagt	cctccgagca	gctttcccc	ttcagcttct	cctgctcctc	ctcatcgggc	5520
ttgcctgcct	tgtaccaatg	ttaggaaag	actacagctg	tgcctctcc	aacaactttg	5580
cccggtcatt	ccaccccatg	ctcagataca	cgaatggccc	tcctccactc	tgaactaagc	5640
agatgccatc	tgcagaagtg	ctggtagcat	aaggaggatc	gggtcataag	caatccaaa	5700
ctaccaacaa	gaggaccttg	atcttggcg	aagccctcg	tgtggcagct	ttagccctcc	5760
tccagatcac	atgtgtgca	attatggctt	cagaggtgga	agataaacag	tgacggggga	5820
acaacacagac	aacaagaagg	tttggaaagaa	atctggttt	agactctgaa	ccttagcact	5880
aaggagattg	agtaaggacc	tccaaagttc	cccgactca	tgaattctgg	gcccttggcc	5940
cattctgtgc	acagccaagg	acttcagtag	accatctgg	cagcttccc	atggtgctgc	6000
tccaaaccatc	agataaatga	ccctcccaag	caccatgtca	gtgtcgata	atctaccaac	6060
caaccagtgc	tgaagagatt	ttagaacctt	gtaacataca	attttaaga	gcttatatgg	6120
cagttccctt	tttaccttgt	tttccttgg	ggcatgatgt	tttaaccttt	gctttagaag	6180
cacaagctgt	aaatctaaaa	ggcactttt	tttagaggtt	taaagaaaaa	ctagatgtaa	6240

114122.00153CA.seqlist.txt

taaataagat catggaaggc tttatgtgaa aaaagttgaa tgttatagt 6289

<210> 8

<211> 1041

<212> DNA

<213> Homo sapiens

<400> 8
 ggcacgagg aagttggacg catgcgccgt ttctctgcat ggtgtcggtt ctcgttctag 60
 ctgcggccgc aggagctgtg gcgggtttcc taatcctgcg aatatggta gtgcttcgtt 120
 ccatggacgt tacgccccgg gagtctctca gtatcttggt agtggctggg tccggtgggc 180
 ataccactga gatcctgagg ctgcttggga gcttgtccaa tgcctactca cctagacatt 240
 atgtcattgc tgacactgat gaaatgagtgc ccaataaaaat aaattctttt gaactagatc 300
 gagctgatag agaccctagt aacatgtata ccaaatacta cattcaccga attccaagaa 360
 gccgggaggt tcagcagtcc tggccctcca ccgtttcac caccttgcac tccatgtggc 420
 tctccttcc cctaattcac agggtgaagc cagatttggt gttgttaac ggaccaggaa 480
 catgtgttcc tatctgtgta tctgccccttc tccttgggat actagaata aagaaagtga 540
 tcattgtcta cggtgaaagc atctgcccgtg tagaaacgtt atccatgtcc ggaaagattc 600
 tgtttcatct ctcagattac ttcatgttc agtggccggc tctgaaagaa aagtatccca 660
 aatcgggtgta ccttggcga attgttgac aaatggcaac tgacttcttt agaattttgc 720
 agttaacagt agtatgtact caaatgggg ggaaaaaaaaac cctacatgtt tcttgtaaag 780
 gctgtgaca gtcctgagaa ttattgtatgg taaggaataa aaaatgtaca gatgactcag 840
 tgaagaaact gaggcttctc ttatgaaaca aacattgata aacgtaacta ctaaatgttt 900
 atgcctctgt aaaccaaatt tctttcttag ataaaaatat gtattactac ctgcaaattt 960
 tcttctggct gtttagtag tattttttt acagaactaa atatagagtt tgtatgatta 1020
 gtaaaaaaaaaaaaaaaa aaaaaaaaaa a 1041

<210> 9

<211> 721

<212> DNA

<213> Homo sapiens

<220>

114122.00153CA.seqlist.txt

<221> misc_feature
<222> (386)..(386)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (629)..(629)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (680)..(680)
<223> n=A or C or G or T or U or unknown or other

<400> 9
ttttgttgg cccaaagtaa acatgtttat tctcagttct gccttagggg tctctagttt 60
tgcaaggcatg agtaaatgga atcaacaata atcccttcct taaatgtctg gcattaaaat 120
ttgtcactta agaagttcc tgtttgcct aaagagagtg tgatttgagg gtgacctgaa 180
acaaggcttg aggcttgtgg acacataggg ttaatgcct tatccctgc caaatcgac 240
agcagtgaaa ggccaaagga agctataaat agcagccccgg cagatctgtc cttccaagag 300
ggaaagaact tagcaacaaa gagagacacg aggggtgaag tgggcaaaga atcattagcc 360
cagtttctgc ccatgccagg gcatgntgac ccttggaaat gctgcgaggc ccagcagagg 420
aagaagagga tcaaagctt cataacctcc aactcagtgc atcccaaacc cagacgggcc 480
tggaccgacc tgtgcattta ctccctaatg ccctcagtca gcagacacgg gagccatcag 540
gtggggaaac gtgcctcag agtgctcctt tttttgaag tggacacagc tccagccagg 600
aatggcagag agggaaaggat cctgcaatng agtggcttct gtcttcaggg ttcacagaca 660
gtcttcgatg acccatgagn tgtttggcgc tcagttcat cggcgggcct ctctggcttg 720
g 721

<210> 10
<211> 478
<212> DNA

<213> Homo sapiens

<400> 10	
tttttttttt ttttgaaaaa ttttggggat ttcccaatga ttttattgag gtaactttc	60
ccaattttat acatatatgc atttatatac acttaggaaa gctaaacaat gttctaaggc	120
acttggaaatt gtgcacagca aagtatcctc taatattata caactaaata gagcagaatt	180
ttgctttta aataacacaa ataccagtac ggaattaaaa aagggaatac atagtcttc	240
tttcagggtta caatagtggc atacaagtac atatgtgtgt atacttgttag atatttatac	300
ccacatacta taatacagta cagataagaa caacaaaaga gaaactgtca tgtaatcag	360
tgtacagttc cagttatTTT cactcacaga tattacacct gtgtaatacg tagaactaga	420
tcactcactg gaaatcagaa agcattcagt cagtctgata atgatcacag tttaccat	478

<210> 11

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (11)..(12)

<223> n=A or C or G or T or U or unknown or other

<220>

<221> misc_feature

<222> (419)..(419)

<223> n=A or C or G or T or U or unknown or other

<400> 11

taaaaaaaaaac nnctgaattt ttttccaccc acaaacacat ggaaagtgc gaaaccagg	60
aatctatgtg atgtatTTGc atacgtttac aaacaagaca aattaaaaaca gaaacatgtt	120
cagaattttaa cctgattaaa tattaagttc agtcctgagc ttttgatatt taagacaata	180
tagataaagc aatagcaaaa aattttaaatt tatttgattt gcatgctaca gagatTTAGG	240
ctaaactttg ttcatttggg ctaggcaata ttcttttgc acctggtaac acttttaggg	300

114122.00153CA.seqlist.txt
tctggatatt acaaaattgg taattaatta tactgggatt aatttccaaa cttgggggga 360
cttaaatatt taccattcct tttttaccc ctggtggcgg ggattaaatt ccttaccnt 420
ttttaaaaat ggggattt 439

<210> 12
<211> 595
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (14)..(14)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (51)..(52)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (81)..(81)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (564)..(564)
<223> n=A or C or G or T or U or unknown or other

<400> 12
gccagagctg gcangggaa gttgctaaag gatgtcttcc ggcctggga nntttcttc 60
aacactgggg acctgctggt ntgcgatgac caaggtttc tccgcttcca tgatcgact 120
ggagacacct tcaggtggaa agggggagaa tgtggccaca accgaggtgg cagaggtctt 180
Page 26

114122.00153CA.seqlist.txt

cgaggcccta gatTTCTTC aggaggtgaa cgtctatgga gtcactgtgc cagggcatga	240
aggcaggcga tggaatggca gccctagtTC tgCGTCCCCC ccacgTTTG gacTTATGC	300
agCTCTACAC ccaccGTGTC tgagaACTTG ccacCTTATG CCCGGCCCCG attCCTCAGG	360
ctCCAGGAGT CTTCGGCCAC cacagagacc ttcaaACAGC agaaAGTTCG gatggcaaAT	420
gagggCTTCG accCCAGCAC CCTGTCTGAC ccactgtacG ttctggacca ggctgttaggt	480
gcCTACCTGC CCCTCACAAAC tgCCCGGTAC agcGCCCTCC tggcaggAAA cCTTCGAATC	540
tgagaACTTC cacacCTGAG gcanCTGAGA gaggactCTG tggggTTGGG ggCCG	595

<210> 13

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (353)..(353)

<223> n=A or C or G or T or U or unknown or other

<220>

<221> misc_feature

<222> (361)..(361)

<223> n=A or C or G or T or U or unknown or other

<220>

<221> misc_feature

<222> (364)..(364)

<223> n=A or C or G or T or U or unknown or other

<220>

<221> misc_feature

<222> (371)..(371)

<223> n=A or C or G or T or U or unknown or other

<400> 13
cagctaaaa catgtctctg cattttattt taagaaaaca caaacctggt cacaacacat 60
cttcagagaa caggataagt gaagaaacaa acaaaatgca tggaatagc aaatttgggg 120
ccacggtcat gttcaagggg cgagactgac atgacatcat tttgttcccg gaaaagcaag 180
gttaactcaa gctgtgaagc ccagatggcc aatagattt ccggccttct aaggaagagc 240
agaatgctct caagagctga attatgatga cttgttaggtt ttgatttagat gagaacacca 300
accccatatt cagcagagag ttaggaaatg agaagtagag gggagaatgt ggngaaatcg 360
nctntatgtt ntttcaaag tcacttccga aaaagaagat gaggtaatag ttgaatatgc 420
cagcaacgga catgaggaac aggaagagta tgatgcgtt cccaaatatg tagccagggg 480
tgctctgcgt tctctctcct aggttaaccga caaagtactt ttgcc 525

<210> 14

<211> 680

<212> DNA

<213> Homo sapiens

<400> 14
tttttttttttttttta gttgtgttac gagcttttat ttagaaagca catttaatac 60
aagtatagtt tcgcagatac aagtttac acacaaatgtt ttgaatatta 120
ttctctttac aaaatggaac cttacaaaaa tactgacaat ttaatgttt tatacagtt 180
tctcttagttg cagttatttc attataaaac aatgtctacc acagaactat gatattttag 240
ttgatattta aaaaaattaa ctcaatgctt ttttaagcag ctaatgtaaa taacacaggt 300
cgagacacag tttataatca tagtgatattt agctaaattt tttcagaaat aatatcttac 360
atagtttaact tttaatgttt tatacattat ttatataata tttatataata aaaaatcatag 420
cttgctataa gttgaaatga aaggacggat tctgttagtaa ggatgtgcattt gtggttgatc 480
catatggtta catttaaccc tttgaaaggt ctgcattccaa gatctaaacg catttcttcc 540
ttcctccctt cctcaaaggt tcagtagaaag gggtccctgt ctatcaccta gagtgggacc 600
ttgcatggaa ggacacttac ggatagagga tgaggaaaac tctctaccga gatttaaccc 660
atatgttctg cccagcagaa 680

<210> 15

<211> 5460

114122.00153CA.seqlist.txt

<212> DNA

<213> Homo sapiens

<400>	15					
cggccccgtt	gctgaaggc	agggaaacaac	ttgatggtgc	tacttgaac	tgctttctt	60
ttctcctttt	tgcacaaaga	gtctcatgtc	tgatatttag	acatgatgag	cttttgcaa	120
aaggggagct	ggctacttct	cgctctgctt	catcccacta	ttatttggc	acaacaggaa	180
gctgttgaag	gaggatgttc	ccatcttggt	cagtcctatg	cgatagaga	tgtctggaaag	240
ccagaaccat	gccaaatatg	tgtctgtgac	tcaggatccg	ttctctgca	tgacataata	300
tgtgacgatc	aagaattaga	ctgccccaaac	ccagaaattc	catttggaga	atgttgc	360
gtttgcccac	agcctccaac	tgctcctact	cgcctcccta	atggtaagg	acctcaaggc	420
cccaagggag	atccaggccc	tcctggattt	cctggagaa	atggtacccc	tggtattcca	480
ggacaaccag	ggtcccctgg	ttctcctggc	ccccctggaa	tctgtaatc	atgcctact	540
ggtcctcaga	actattctcc	ccagtatgtat	tcatatgtat	tcaagtctgg	atgacgatgt	600
ggaggactcg	caggctatcc	tggaccagct	ggccccccag	gccctccgg	tccccctgg	660
acatctggtc	atcctggttc	ccctggatct	ccaggatacc	aaggaccccc	tggtaaccc	720
gggcagactg	gtccttcagg	ccctccagga	cctcctggtg	ctataggtcc	atctggcct	780
gctggaaaag	atggagaatc	agtagaccc	ggacgacctg	gagagcgagg	attgcctgga	840
cctccaggtt	tcaaaggatcc	agctggata	cctggattcc	ctggatgaa	aggacacaga	900
ggcttcgatg	gacaaaatgg	agaaaagggt	gaaacaggtg	ctcctggatt	aaagggtgaa	960
aatggtcttc	caggcgaaaa	tggagctcct	ggacccatgg	gtccaagagg	ggctcctgg	1020
gagcgaggac	ggccaggact	tcctggggct	gcaggtgctc	gggtaatga	cggtgctcga	1080
ggcagtgtatg	gtcaaccagg	ccctcctgg	cctcctggaa	ctgcccggatt	ccctggatcc	1140
cctggtgcta	agggtgaagt	tggacctgca	gggtctcctg	gttcaaattgg	tggccctgg	1200
caaagaggag	aacctggacc	tcagggacac	gctggtgctc	aaggccctcc	tggccctcct	1260
gggattaatg	gtagtcctgg	tggtaaaggc	gaaatgggtc	ccgctggat	tcctggagct	1320
cctggactga	tggagcccg	gggtcctcca	ggaccagccg	gtgctaattgg	tgctcctgg	1380
ctgcgaggtg	gtgcaggtga	gcctggtaag	aatggtgcca	aaggagagcc	cggaccacgt	1440
ggtaacgcg	gtgaggctgg	tattccaggt	gttccaggag	ctaaaggcga	agatggcaag	1500
gatggatcac	ctggagaacc	tggtaaatt	gggttcctgg	gagctgcagg	agaaaggggt	1560
gccccctgggt	tccgaggacc	tgctggacca	aatggcatcc	caggagaaaa	gggtcctgct	1620
ggagagcgtg	gtgctccagg	ccctgcagg	ccagaggag	ctgctggaga	acctggcaga	1680

114122.00153CA.seqlist.txt

gatggcgtcc	ctggaggtcc	aggaatgagg	ggcatgcccg	gaagtccagg	aggaccagga	1740
agtatggga	aaccagggcc	tcccggaa	gttgcacc	aggtcctcct	1800	
ggccatctg	gtccccgagg	tcagccttgt	gtcatggct	tcccccgtcc	taaaggaaat	1860
gatggtgctc	ctggtaagaa	tggagaacga	ggtggccctg	gaggacctgg	ccctcaggg	1920
cctcctggaa	agaatggtga	aactggacct	caaggacccc	cagggcctac	tgggcctgg	1980
ggtgacaaag	gagacacagg	accccccgtt	ccacaaggat	tacaaggctt	gcctggtaca	2040
ggtggtcctc	caggagaaaa	tggaaaacct	ggggaaaccag	gtccaaagg	tgtatgcccgt	2100
gcacctggag	ctccaggagg	caagggtgat	gctggtgc	ctggtaacg	tggacctcct	2160
ggattggcag	gggccccagg	acttagaggt	ggagctggtc	cccctggtcc	cgaaggagga	2220
aagggtgctg	ctggtcctcc	tggccac	gttgctgctg	gtactcctgg	tctgcaagga	2280
atgcctggag	aaagaggagg	tcttggaa	gttgcac	agggtgacaa	gggtgaacca	2340
ggcggcc	gtgctgatgg	tgtcccagg	aaagatggcc	caaggggtcc	tactggcct	2400
attggtcctc	ctggcccagc	tggccagc	ggagataagg	gtgaaggtgg	tgc	2460
cttccaggt	tagctggacc	tcgtggtagc	cctggtgaga	gaggtgaaac	tggccctcca	2520
ggacctgctg	gtttccctgg	tgctcctgga	cagaatggt	aacctggtgg	taaaggagaa	2580
agaggggctc	cgggtgagaa	aggtgaagga	ggccctc	gagttgcagg	acccccc	2640
gttctggac	ctgctggtcc	tcctggtccc	caagggtgtca	aaggtgac	tggcagtc	2700
ggtggac	ctgctgctgg	cttccctgg	gctcggtgc	ttcctggtcc	tcctggtagt	2760
aatggtaacc	caggacccc	aggtccc	ggttctccag	gcaaggatgg	gcccc	2820
cctgcgggta	acactggtgc	tcctggcagc	cctggagtgt	ctggaccaa	aggtgatgc	2880
ggccaaccag	gagagaaggg	atcgccctgg	gcccaagg	caccagg	tccaggccc	2940
cttgggattg	ctgggatcac	tggagcacgg	ggtcttgc	gaccaccagg	catgccagg	3000
cctagggaa	gccctggccc	tcagggtgc	aagggtgaa	gtggaaacc	aggagcta	3060
ggtctcagt	gagaacgtgg	tccccc	ccccagg	ttcctgg	ggctgg	3120
gctggtaac	ctgaaagaga	tggaaacc	ggatcagat	gtctccagg	ccgagatgg	3180
tctcctgg	gcaagggtga	tcgtgg	aatggctc	ctgg	tggcg	3240
ggtcatccag	gcccacctgg	tcctgtcg	ccagctgg	agagtgg	ca	3300
agtggccctg	ctggccctgc	tgg	gttcc	gagg	tgctc	3360
cctcaaggcc	cacgtgg	caaagg	acagg	gtggag	tc	3420
ggacatcgag	gatccctgg	taatcc	ccccagg	ctccagg	tgctgg	3480
cagggtgcaa	tcggcagtcc	aggac	ggccc	gac	acc	3540
cctcctggca	aagatgg	ac	cag	gttcc	ttggacc	agggc

114122.00153CA.seqlist.txt

ggtaacagag	gtgaaagagg	atctgagggc	tccccaggcc	acccagggca	accaggccct	3660
cctggacctc	ctggtgcccc	tggccttgc	tgtggtggtt	ttggagccgc	tgccattgct	3720
gggattggag	gtaaaaaagc	tggcggtttt	gcccccgtatt	atggagatga	accaatggat	3780
ttcaaaatca	acaccgatga	gattatgact	tcactcaagt	ctgttaatgg	acaatagaa	3840
agcctcatta	gtcctgatgg	ttctcgtaaa	aaccccgcta	gaaactgcag	agacctgaaa	3900
ttctgccatc	ctgaactcaa	gagtggagaa	tactgggttg	accctaacc	aggatgcaaa	3960
ttggatgcta	tcaaggtatt	ctgtaatatg	gaaactgggg	aaacatgcat	aagtgc当地	4020
ccttgaatg	ttccacggaa	acactggtgg	acagattcta	gtgctgagaa	gaaacacggt	4080
tggttggag	agtccatgga	tggtggtttt	cagtttagct	acggcaatcc	tgaacttc当地	4140
gaagatgtcc	ttgatgtgca	gctggcattc	cttcgacttc	tctccagccg	agcttccc当地	4200
aacatcacat	atcactgcaa	aaatagcatt	gcatacatgg	atcaggccag	tggaaatgta	4260
aagaaggccc	tgaagctgat	ggggtcaaata	gaaggtgaat	tcaaggctga	aggaaatagc	4320
aaattcacct	acacagttct	ggaggatgg	tgcacgaaac	acactgggg	atggagcaaa	4380
acagtctttg	aatatcgaac	acgcaaggct	gtgagactac	ctattttaga	tattgcaccc	4440
tatgacattg	gtggcctgta	tcaagaattt	ggtgtggacg	ttggccctgt	ttgcttttta	4500
taaaccaaaac	tctatctgaa	atcccaacaa	aaaaaaattt	actccatatg	tgtccctt当地	4560
gttctaattct	tgtcaaccag	tgcaagtgc	cgacaaaattt	ccagtttattt	atttccaaaa	4620
tgtttggaaa	cagtataattt	tgacaaagaa	aaatgatact	tctctttttt	tgctgttcca	4680
ccaaatacaa	ttcaaattgct	ttttgttta	tttttttacc	aattccaatt	tcaaaatgtc	4740
tcaatggtgc	tataataaaat	aaacttcaac	actctttatg	ataacaacac	tgtgttat	4800
tctttgaatc	ctagcccatc	tgcagagcaa	tgactgtgct	caccagtaaa	agataacctt	4860
tctttctgaa	atagtcaaata	acgaaattag	aaaagccctc	cctattttaa	ctacctcaac	4920
tggtcagaaa	cacagattgt	attctatgag	tcccagaaga	tgaaaaaaat	tttatacgtt	4980
gataaaaactt	ataaaattca	ttgattaatc	tcctggaaga	ttggtttaaa	aagaaaagtg	5040
taatgcaaga	atttaaagaa	atattttaa	agccacaattt	attttaat	tggatatcaa	5100
ctgcttgtaa	agggtctcct	ctttttctt	gtcattgctg	gtcaagatta	ctaataattt	5160
ggaaggctt	aaagacgcat	gttatggtgc	taatgtactt	tcactttaa	actctagatc	5220
agaattgtt	acttgcattc	agaacataaa	tgcacaaaat	ctgtacatgt	ctcccatcag	5280
aaagattcat	tggcatgcca	cagggattct	cctccttcat	cctgtaaagg	tcaacaataa	5340
aaaccaaattt	atggggctgc	ttttgtcaca	ctagcataga	gaatgtgtt	aaatttaact	5400
ttgtaagctt	gtatgtggtt	gttgatctt	ttttcctta	cagacaccca	taataaaaata	5460

114122.00153CA.seqlist.txt

<210> 16
<211> 455
<212> DNA
<213> Homo sapiens

<400> 16
tttattatca acagacaaaa aaagtattt gaatacAAAAA ctcAAaggca tcaacagtcc 60
tgggcccAAG agatccatgg caggaagtca agagttctgc ttcagggTCG gtctggcag 120
cccttggaaAAG agtcattgca catgacagtG atgagtGCCA ggAAAACAGC atactcctgg 180
aagtccacct gctggTact gttctcatcc aggctGCCA tcagttctt cagccccTCC 240
tcatccactt tctccccac aaagctggc agctcTTGT gcagaagtTC cttcatttcc 300
cccttaCTCA gCTGAactt gtcGCCtCT tggcaggAGT acttgtggaa ggtagtGacc 360
agcacagCCA gCgcCTgCTC cagagaACTG cacatcatgg atctgtggCT gtgtacttGT 420
tttctctcag cctCACCCCC acatggtgag ctcac 455

<210> 17
<211> 2420
<212> DNA
<213> Homo sapiens

<400> 17
ggatccaggc cctgccagga aaaatataag ggcCcTgcgt gagaacagAG ggggtcatcc 60
actgcATgAG agtggggatg tcacAGAGTC cAgcccACCC tcctggTAGC actgagaAGC 120
caggGCTGTG CTTGCGGTCT GcAccCTGAG ggCCCGTGA ttcctttcc tggagCTCCA 180
ggaACCAGGC agtGAGGcCT tggTCTGAGA cAGTATCCTC aggtcacAGA gCAGAGGATG 240
cacAGGGTGT GccAGCAGTG aATGTTGCC CTGAATGcAC accaAGGGCC ccACCTGCCA 300
caggACACAT AGGACTCCAC agAGTCTGGC CTCACCTCCC TACTGTCAgT CCTGTAGAAT 360
cgacCTCTGC tggccggCTG tAccCTGAGT ACCCTCTCAC ttCCCTTCC aggtttcAG 420
gggacaggCC aACCCAGAGG ACAGGATTCC CTGGAGGCCA CAGAGGAGCA CCAAGGAGAA 480
gatCTGTAAg taggcTTTG ttagAGTCTC caAGGTTCAg ttCTCAGCTG aggCCTCTCA 540
cacACTCCCT CTCTCCCCAG GcCTGTGGGT CTTCAATTGCC CAGCTCCTGC CCACACTCCT 600
gcCTGTGcC CTGACGAGAG TCATCATGTC TCTTGAGCAG AGGAGTCTGC ACTGCAAGCC 660
tgagGAAGCC CTTGAGGCCA AACAAGAGGC CCTGGGCCtG GTGTGTGcC AGGCTGCCAC 720

114122.00153CA.seqlist.txt

ctcctcctcc ttcctctgg tcctggcac cctggaggag gtgccactg ctgggtcaac	780
agatccccc cagagtctc agggagcctc cgccttccc actaccatca acttcactcg	840
acagaggcaa cccagtgagg gttccagcag ccgtgaagag gaggggcca gcacctctg	900
tatcctggag tccttgttcc gagcagtaat cactaagaag gtggctgatt tggttggttt	960
tctgctcctc aaatatcgag ccagggagcc agtcacaaag gcagaaatgc tggagagtgt	1020
catcaaaaat tacaagact gtttcctga gatcttcggc aaagcctctg agtccttgca	1080
gctggcttt ggcattgacg tgaaggaagc agaccccacc ggccactcct atgtccttgt	1140
cacctgccta ggtctctcct atgatggcct gctgggtgat aatcagatca tgcccaagac	1200
aggcttcctg ataattgtcc tggtcatgat tgcaatggag ggcggccatg ctccctgagga	1260
ggaaatctgg gaggagctga gtgtgatgga ggtgtatgat gggagggagc acagtgccta	1320
tggggagccc aggaagctgc tcacccaaga tttggtgcag gaaaagtacc tggagtaccg	1380
gcaggtgccc gacagtgatc ccgcacgcta tgagttcctg tggggtccaa gggccctcgc	1440
tgaaaccagc tatgtgaaag tccttgagta tgtgatcaag gtcagtgcaa gagttcgctt	1500
tttcttccca tccctgcgtg aagcagctt gagagaggag gaagagggag tctgagcatg	1560
agttgcagcc aaggccagtg ggagggggac tgggccagtg cacctccag ggccgcgtcc	1620
agcagcttcc cctgcctcgt gtgacatgag gccattctt cactctgaag agagcggtca	1680
gtgttctcag tagtaggttt ctgttctatt gggtgacttg gagatttatac tttgttctct	1740
tttggaaattt ttcaaattttttaag ggatggttga atgaacttca gcatccaagt	1800
ttatgaatga cagcagtcac acagttctgt gtatatagtt taaggtaag agtcttgtt	1860
tttattcaga ttggaaatc cattcttattt tgtgaattgg gataataaca gcagtggaaat	1920
aagtacttag aaatgtgaaa aatgagcagt aaaatagatg agataaagaa ctaaagaaaat	1980
taagagatag tcaattcttgc ctttataacct cagtctattt tgtaaaattt ttaaagatata	2040
atgcataacctt ggatttcctt ggcttcttgg agaatgtaaag agaaattaaa tctgaataaa	2100
gaattcttcc ttttcactgg ctctttctt ctccatgcac tgagcatctg cttttggaa	2160
ggccctgggt tagtagtgga gatgctaagg taagccagac tcataccac ccatagggtc	2220
gtagagtcta ggagctgcag tcacgtatc gaggtggcaa gatgtcctt aaagatgttag	2280
ggaaaagtga gagaggggtg agggtgtgg gctccgggtg agagtggtgg agtgtcaatg	2340
ccctgagctg gggcatttttgg gctttggaa aactgcagtt cttctgggg gagctgattt	2400
taatgatctt gggatcc	2420

<210> 18

<211> 5826

114122.00153CA.seqlist.txt

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4852)..(4852)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (4864)..(4864)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (4866)..(4866)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (4876)..(4876)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (4886)..(4886)
<223> n=A or C or G or T or U or unknown or other

<220>
<221> misc_feature
<222> (4904)..(4904)

114122.00153CA.seqlist.txt
<223> n=A or C or G or T or U or unknown or other

<220>

<221> misc_feature

<222> (4985)..(4985)

<223> n=A or C or G or T or U or unknown or other

<220>

<221> misc_feature

<222> (5032)..(5032)

<223> n=A or C or G or T or U or unknown or other

<400> 18

ggggggggggg ggggtggag cgtggttgag cggctggcgc gggtgtcctg gagcaggggc	60
gcaggaattc ttagtggaaa ctaacagtct gtgagccctg gaacctccac tcagagaaga	120
tgaaggatat cgacatagga aaagagtata tcatccccag tcctgggtat agaagtgtga	180
gggagagaac cagcacttct gggacgcaca gagaccgtga agattccaag ttcaggagaa	240
ctcgaccgtt ggaatgccaa gatgccttgg aaacagcagc ccgagccgag ggcctctctc	300
tttagtgcctc catgcattct cagtcagaa tcctggatga ggagcatccc aaggaaagt	360
accatcatgg ctttagtgct ctgaagccca tccggactac ttccaaacac cagcacccag	420
tggacaatgc tggcttttt tcctgtatga cttttcgtg gctttttct ctggcccggt	480
tggcccacaa gaagggggag ctctcaatgg aagacgtgtg gtctctgtcc aagcacgagt	540
cttctgacgt gaactgcaga agactagaga gactgtggca agaagagctg aatgaagttg	600
ggccagacgc tgctccctg cgaagggttg tgtggatctt ctgccgcacc aggctcatcc	660
tgtccatcggt gtgcctgatg atcacgcagc tggctggctt cagtggacca gccttcatgg	720
tgaaacacct cttggagttt acccaggcaa cagagtctaa cctgcagttt acgttgttgc	780
tagtgctggg cctccctcgt acggaaatcg tgcggcttg gtcgcttgca ctgacttggg	840
cattgaatta ccgaaccggt gtccgcttgc gggggccat cctaaccatg gcatttaaga	900
agatccttaa gttaaagaac attaaagaga aatccctggg tgagctcatc aacatttgct	960
ccaacgatgg gcagagaatg tttgaggcag cagccgttgg cagcctgtg gctggaggac	1020
ccgttggatgc catcttaggc atgatttata atgtaattat tctggacca acaggcttcc	1080
tggttgcgtc tggatcagc tggatcgttgc ctcttttacc cagcaatgtat gtttgcgtc aacaggcttcc	1140

114122.00153CA.seqlist.txt

catatttcag gagaaaatgc	gtggccgcca	cggatgaacg	tgtccagaag	atgaatgaag	1200
ttcttactta cattaaattt	atcaaaaatgt	atgcctgggt	caaagcattt	tctcagagtg	1260
ttcagaaaat ccgcgaggag	gagcgtcgg	tattggaaaa	agccgggtac	ttccagagca	1320
tcactgtggg tggctccc	attgtggtgg	tgattgccag	cgtggtgacc	ttctctgttc	1380
atatgaccct gggcttcgat	ctgacagcag	cacaggctt	cacagtggtg	acagtcttca	1440
attccatgac tttgctttg	aaagtaaacac	cgtttcagt	aaagtccctc	tcagaagcct	1500
cagtggctgt tgacagattt	aagagttgt	ttctaattgga	agaggttcac	atgataaaga	1560
acaaccacgc cagtcctcac	atcaagatag	agatgaaaaa	tgccaccctg	gcatgggact	1620
cctcccaactc cagtatccag	aactcgccca	agctgacccc	caaatgaaa	aaagacaaga	1680
gggcttccag gggcaagaaa	gagaaggta	ggcagctgca	gcmcactgag	catcaggcgg	1740
tgctggcaga gcagaaaggc	cacccctcc	tggacagtga	cgagcggccc	agtcccgaag	1800
aggaagaagg caagcacatc	cacctggcc	acctgcgctt	acagaggaca	ctgcacagca	1860
tcgatctgga gatccaagag	ggtaaactgg	ttgaaatctg	cggcagtgtg	ggaagtggaa	1920
aaacctctct catttcagcc	attttaggccc	agatgacgct	tctagagggc	agcattgcaa	1980
tcagtggAAC cttcgcttat	gtggcccAGC	aggcctggat	cctcaatgct	actctgagag	2040
acaacatcct gtttggaaag	gaatatgt	aagaaagata	caactctgtg	ctgaacagct	2100
gctgcctgag gcctgacctg	gccattttc	ccagcagcga	cctgacggag	attggagagc	2160
gaggagccaa cctgagcggt	gggcagcgcc	agaggatcag	cctgccccgg	gccttgtata	2220
gtgacaggag catctacatc	ctggacgacc	ccctcagtgc	cttagatgcc	catgtgggca	2280
accacatctt caatagtgt	atccggaaac	atctcaagtc	caagacagtt	ctgtttgtta	2340
cccaccagtt acagtacctg	gttgactgtg	atgaagtgtat	cttcatgaaa	gagggctgtat	2400
ttacggaaag aggcacccat	gaggaactga	tgaattttaaa	tggtactat	gctaccattt	2460
ttaataacct gttgctggg	gagacaccgc	cagttgagat	caattcaaaa	aaggaaacca	2520
gtggttcaca gaagaagtca	caagacaagg	gtcctaaaac	aggatcagta	aagaaggaaa	2580
aagcagtaaa gccagaggaa	gggcagcttg	tgcagctgga	agagaaaggg	cagggttcag	2640
tgccctggtc agtataatgg	gtctacatcc	aggctgctgg	gggccccctg	gcattcctgg	2700
ttattatggc cttttcatg	ctgaatgttag	gcagcaccgc	cttcagcacc	tggtgggtga	2760
gttactggat caagcaagga	agcggaaaca	ccactgtgac	tcgagggAAC	gagacctcgg	2820
tgagtgcacag catgaaggac	aatcctcata	tgcaactacta	tgccagcatc	tacgcccctct	2880
ccatggcagt catgctgatc	ctgaaagcca	ttcgaggagt	tgtctttgtc	aagggcacgc	2940
tgcgagcttc ctcccggctg	catgacgagc	tttccgaag	gatccttcga	agccctatga	3000
agtttttga cacgacccccc	acagggagga	ttctcaacag	gtttccaaa	gacatggatg	3060

114122.00153CA.seqlist.txt

aagttgacgt gcggctgccg ttccaggccc agatgttcat ccagaacgtt atcctggtgt	3120
tcttctgtgt gggaatgatc gcaggagtct tcccgtggtt ccttgtggca gtggggcccc	3180
ttgtcatcct ctttcagtc ctgcacattt tctccagggc cctgattcgg gagctgaagc	3240
gtctggacaa tatcacgcag tcacctttcc tctcccacat cacgtccagc atacagggcc	3300
ttgccaccat ccacgcctac aataaaggc aggagttct gcacagatac caggagctgc	3360
tggatgacaa ccaagctcct tttttttgtt acgtgtgc gatgcgggtgg ctggctgtgc	3420
ggctggacct catcagcatc gccctcatca ccaccacggc gctgatgatc gttcttatgc	3480
acgggcagat tcccccagcc tatgcgggtc tcgccatctc ttatgctgtc cagttaacgg	3540
ggctgttcca gtttacggtc agactggcat ctgagacaga agctcgattt acctcggtgg	3600
agaggatcaa tcactacatt aagactctgt ccttggaaac acctgccaga attaagaaca	3660
aggctccctc ccctgactgg ccccaggagg gagaggtgac ctttgagaac gcagagatga	3720
ggtaccgaga aaacccctt cttgtcctaa agaaagtatc cttcacgatc aaacctaaag	3780
agaagattgg cattgtgggg cgacaggat cagggaaatgc ctgcgtgggg atggccctct	3840
tccgtctggg ggagttatct ggaggctgca tcaagattga tggagtgaga atcagtgata	3900
ttggccttgc cgacaccttgc agcaaactct ctatcattcc tcaagagccg gtgctgttca	3960
gtggcactgt cagatcaaattt tggaccctt tcaaccagta cactgaagac cagatttggg	4020
atgcccttgg gaggacacac atgaaagaat gtattgctca gctacctctg aaacttgaat	4080
ctgaagtgtatgg gataacttct cagtggggg acggcagctc ttgtgcata	4140
cttagccct gctccgccac tgtaagattc tgattttaga tgaagccaca gctccatgg	4200
acacagagac agacttattt attcaagaga ccatccgaga agcatttgc gactgtacca	4260
tgctgaccat tgcccatcgc ctgcacacgg ttctaggctc cgataggatt atgggtctgg	4320
cccagggaca ggtgggtggag tttgacaccc catcggtcct tctgtccaac gacagttccc	4380
gattctatgc catgtttgtc gctgcagaga acaaggtcgc tgtcaaggc tgactccctcc	4440
ctgttgacga agtctttttt cttagagca ttgcattcc ctgcgtgggg cgggcccctc	4500
atcgcttcct cctaccgaaa cttgccttt ctgcattttt tctttcgac agcagttccg	4560
gattggcttgc tggtttcac ttttagggag agtcatattt tgattattgt atttattcca	4620
tattcatgtt aacaaaattt agttttgtt cttatttgc ctctaaaagg ttcaggaaac	4680
cgttattata attgtatcag aggcctataa tgaagcttta tacgtgtac tataatctata	4740
tataattctg tacatagcct atatttacag taaaaatgtt agctgtttat tttatattaa	4800
aataagcact gtgctaataa cagtgcataat tcctttctat cattttgtt cngtttgct	4860
tacnanaaat ctggtnntgc tmtnactg ttaggaagaa ttancatttc attcttctct	4920

114122.00153CA.seqlist.txt

agctggtggt	ttcacggtgg	ccaggtttc	tgggtgtcca	aaggaagacg	tgttgtggcaat	4980
agttnnnncc	ctccgacaag	ccccctctgc	cgcctcccca	cagccgctcc	anggggtggc	5040
tggagaacgg	gtggggcggt	ggagaccatg	ccagagcgcc	gtgaggcttc	agggctccctg	5100
ccttctgtcc	tggtgtcaact	tactgtttct	gttcagggag	agcagcgggg	cgaagcccag	5160
gccccctttc	actccctcca	tcaagaatgg	ggatcacaga	gacattcctc	cgagccgggg	5220
agtttcttcc	ctgccttctt	cttttgcgt	ttgtttctaa	acaagaatca	gtcttatccac	5280
agagagtc	actgcctcag	gttcctatgg	ctggccactg	cacagagctc	tccagctcca	5340
agacctgtt	gttccaagcc	ctggagccaa	ctgctgttt	ttgaggtggc	actttttcat	5400
ttgccttattc	ccacacccctcc	acagttcagt	ggcagggctc	aggatttcgt	gggtctgttt	5460
tcctttctca	ccgcagtcgt	cgcacagtct	ctctctctct	ctccctcaa	agtctgcaac	5520
tttaaggcagc	tcttgcta	cagtgtctca	cactggcgta	gaagttttt	tactgtaaag	5580
agacctac	caggttgctg	gttgctgtgt	ggtttgggtgt	gttcccgcaa	acccccc	5640
tgctgtgggg	ctggtagctc	aggtgggcgt	ggtcactgct	gtcatacgat	aatggtcag	5700
cgttgcatgt	cgtgaccaac	tagacattct	gtcgcccttag	catgtttgct	gaacaccttg	5760
tgaaagcaaa	aatctgaaaa	tgtgaataaa	attattttgg	attttgtaaa	aaaaaaaaaa	5820
aaaaaa						5826

<210> 19
<211> 33023
<212> DNA
<213> Homo sapiens

<400> 19

cttgccctcag	cctccccata	gctgggagca	caggtgcgtg	tcaccgcccc	agctaatttt	60
taaatttttt	gtagagacaa	ggtttcgcta	tgttgcggag	gctggtctcg	aacccctggg	120
atcaagtgtat	ctgtgtcagg	cctctgagcc	caagctaagc	catcatatcc	cctgtgaccc	180
gcacatatac	atccagatgg	cctgaagcaa	ctgaagatcc	acaaaagaag	tgaaaatagc	240
cttaactgtat	gacattccac	cattgtgatt	tgtttctgcc	ccaccctaac	tgtatgtactt	300
tgtatctcc	cccaccctta	agaaagttct	ttgtatctc	cctcaccctt	gagaaggttc	360
tttgtatattt	gtaattctcc	ccacccttga	aatgtactt	tgtgagatcc	acccctgtcc	420
cacaaaacat	tgctcctaac	tccagcgcct	atcccaaacc	ctataagaac	taatgataat	480
cccatcaccc	tttgcgtact	ctctttcgg	actcagcctg	cctgcacccca	ggtaaaataaa	540
acagccttgt	tgctcacaca	gagcctgttt	ggtagtctct	tcacatggac	gtgtgagaca	600

114122.00153CA.seqlist.txt

atctgcccac ctggtcctcc caaagtctg ggattacagg tgtgagtcac caggcccagc	660
cgagaaagag ttgaatacac acgttagggaga ctggagttt attattactc aaatcagctg	720
ccctgaaaat ttgaaggctg ggatttattt atttatttt tatTTTTTg agatggagtc	780
tcgctctgtc gcccaggctg gagtgagctg gcatgagcta ggctcaactgc aagctccgcc	840
tcccagggttc aagcgattct cctgcctcag cctcctgagt agctgggatt acaggcccgt	900
gccaccacac ctggtaatt ttttgttattt tttagtagaga cggggcttca ccatgttagc	960
ctggatggtc ttgatctcct gacctcgta tccacccatg ttggcctccc aaagtgttga	1020
gattacaggc atgagccacc gtgcccagcc ctgaaggcta ggtttttttt ttgagacaga	1080
gtctcactct gttggccagg ctggagtgca gtggcacaat cttggctcac tgcaacctcc	1140
acctcccggg ttcaagcgat ttccggctaa cttttgtatt tttagtagag acaggggttt	1200
caccatgttgc cccaggctgc tcttgaactc ctgaccccaa gtgacccacc cgccctggcc	1260
tcccaaagtg ctaggattac aggtgtgagc caccgcaccc agccgaaag ctaggatttt	1320
ttaaagatag ttggcggac agggggctag ggaatgggtg ctgctactg gttgggtggg	1380
ggatgattct tgggtccggg tggagccatc tggtagtgag aaatgaaaaa acctgcaaag	1440
ataggtctat gtggtccggg tggagccatc tggtagtgag aaatgaaaaa acctgcaaag	1500
acgtctcaaa aagccaaacct tagttctac aatagtgaca ttatctacag gagtaattgg	1560
agaagttaca aatcttgc gctctgaaca atggctggc atcatgaatg cttccatgtt	1620
agcagaattc aggccccctt catcctccctc acctgatggc ctttcattac ttttacaaag	1680
gcggtttcat ctgggaagg tctgttatca tttaaactat aaacgaaatt tctccaaag	1740
ttagcttggc ccatgcccag gaaagacaa aaacagtttgg gaggtaaat gcagacaggg	1800
ttggtagat cagctctctc actggcagaa ttttggact gttacagttt ttgcaaggca	1860
gcttttaggt gatgggtctg cacgaaatat atgcatgtaa cagaaccgcg cttgtaccct	1920
ctcaatctat aaaacaaata aaaccacccct aataaaaagt tacataaaat gtaaaaaaca	1980
aagcaaagcc tccttctgc gggctgtgt aaacgagcac agctggggg aaggcgccgg	2040
gtgggggggtt ctgctgcccc ccatccctgc cctgctgcag gccctcgccc ccagccccat	2100
tctttctgtt ctccgcttgg ctgcagccgc acgtcgcccc cctcccccagg agctggaaagt	2160
acaaagccct tccaggtgga ctctggctcc ccctttgttc ccagttatt ctaattccaa	2220
agctcattgt gcccggctcg cttcagaag aggaggcgcc cccatccgt ctccagctgc	2280
ccatccctccc aggataacca gtcaccccaag ggcccggtgg cccctcaccc agccctccccc	2340
cggtccgcag ctgcccattaggg cttgagttggg cgctggctcc aattctcagg cctcccccaa	2400
caaacaggag cattccggct agccccctc ccctgcccctc ccccccagctc cccttctccct	2460

114122.00153CA.seqlist.txt

ccccctcccc	tcctcctcag	ctcctactcc	aaccccccag	ccccagctgg	ggcctgaaag	2520
gctgcccact	ccctgggaca	cgttaagggg	agggtgcagc	tctccccccg	cccctccccg	2580
gtcgccctcg	ccccagagaa	cagttgctt	ctcacccaga	agccaccata	ggagctctgg	2640
gctgggcaca	ggtcgcaggg	caccccccacc	ccctcctgca	catgctcgg	acccccccttc	2700
agttagatga	acacaagggc	ctggcaagac	aggcggaggc	ttggaaaggg	ctggcggggg	2760
acagctaccc	ggccctcagc	tggggccctg	gagagcccac	cctgcccctc	cccagcagct	2820
gctgcccccg	ggccgagcct	gacgcgcctt	gacaaagccc	gagaacgctt	tgaagccttc	2880
ggacgtggga	gaggacccag	ccagggatgg	aaatcgctt	gccttgc	ccccaaactgc	2940
tcagcagctc	gtgggagcag	cctcagaaga	ccctgtca	ggccgcccgg	gtcagagcct	3000
tgacagaga	ccagagctcc	ggccggagct	ccccgcccgg	aactccagcc	ttaccagcct	3060
gaacttcatg	cactgctcaa	agaggccag	ctcgccctgg	ctggcaggg	gcggctccca	3120
gggtggccga	cgtggggagg	gttcctgaac	ctccctcagg	agcctcctgg	gacagagttc	3180
tggaggtcag	cagagaaagg	gaagccagg	ctgtgggccc	cgcgtggagg	aaaaactcag	3240
gggaaacgcc	ccgaggctgg	gagggcacag	ccccatcaca	ctccatctcg	tagtcttgg	3300
aaaaaatta	gttctacctc	cagggcacag	aaaagccaa	agaaggatg	agataaagga	3360
ggggctggtc	agatttgtc	ttcaggaggg	tccctctggc	tgctcagaga	atgcagttt	3420
gggtctggcc	caggccgtga	ggaggagttc	acagtcacta	tgggtccag	accagctgg	3480
ggcgggaggc	agggcctggc	ccaggggctg	gtagtgggtg	cacccaggc	tgggctggca	3540
aaggggcgggg	aagaagggtgg	gtgtggaaag	gggtggctgc	ctggagaaga	gcccagttcc	3600
aggaggtcgt	gggagtcagg	tatggggcc	cactggacct	cccctcagat	gtggggcctc	3660
ccactcccgag	ggtccatgga	gcagtggcag	ccattctgga	cagccccca	ccttcactt	3720
ctgtctccag	taccctccag	cctggccacc	tcgcccctcg	cctcggcctc	ctctgatctc	3780
acaaaggcag	cagcagtcag	gggtggcgcac	tccctcatga	tcctgtccct	ggcctcggaa	3840
cccaccggag	gagtaaccgc	agcagtggtc	acttcccaa	agtccatca	gctctcctac	3900
atccttctcg	agcctctgct	ttctctccct	tccacccca	ccccttgcac	aagcaacatc	3960
tgaaagtctc	ccctgcccgc	ggctccaga	gctgtctggc	cgtggcctgc	actctccctc	4020
aaagcggccc	tcccccaggt	caccgtcctc	ccttcgatga	catcacgcgc	ccaccccgca	4080
ctccctgctgg	gctgaggccc	tccgagccta	cttcaccggg	tcctcttctt	tctctcaaag	4140
gcaatggggt	ttgcctgtgg	tccagctggg	ttggccctct	tccctctgtc	ctgggtcctt	4200
gagtggccccc	gttcttttag	gccatctatg	agtcaactct	ctaatgcccc	tgtctccaga	4260
ccagcttcag	tcaaaggctg	ggccagagaa	gaccctagtg	agaaacttct	gatgagcagt	4320
gtgaccttgc	cacccatggg	gtacccaccc	accacccctg	gtctaagcac	aggtgacacc	4380

114122.00153CA.seqlist.txt

gcctgtctcc	cccaaccaca	cacaccctt	gaggctcctc	ctccaagcct	gggtggggac	4440
actgtccctc	cctcacccag	caagctaat	ctggcttggg	ccggaactgc	ttttcttcct	4500
aaagctggac	ggatggccgc	gggcttagct	taacgggatg	agccatctgg	ggactgcagt	4560
gtccacgatc	agatcaggga	gcttgaagct	gaggggggca	cacttacct	cccaggccag	4620
gacaatgacc	acttccttcc	ccacccacc	cccaggctac	tcttagccct	agaaaattct	4680
aaacaagctg	ctcagctggc	ggcggagagg	cagcccaaca	agctggctct	tgcttagggag	4740
gcctgggggg	tcctggggag	aggaacacgg	ggtgggtggg	gggcgggcag	ccaggacctc	4800
aggcctgagg	cctttgggaa	agggtctgtg	cacctgccag	gcaccagggg	gcagccttgc	4860
cttgttcccg	ctccagtcctc	ctcaagtccg	aagcccctac	ccactctcac	gccaggcagg	4920
ggtgggggccc	gccggggtca	tttaccggg	ccccttctct	gccttcatga	caaagtgcag	4980
ccttgctcat	cagccaggca	ggctccctc	tgcccactgt	ggagacacag	aggcctgtca	5040
cctgaagagc	tggtcccgcc	ctccagcttc	caggtagcc	gggaagctgt	agcccccagt	5100
gggcagcgg	ggagagagct	caaggaagga	gggagcaccg	ggaggagacg	gctcagcct	5160
gccaggagcg	gggagaaagg	gagagaaggg	gaggcggagg	gctgaggggg	cccggggac	5220
gtcttcccg	ggctgggagg	ggccggccgg	gaagcctggg	ctgcactagg	agccggcgac	5280
cctggggcga	ggggcggccc	ggagccctgc	gggaggagct	ggcggccgac	ccaggttagca	5340
accatcctgc	ctcccgctgg	agcggcgct	cctccccggg	aggagggcag	ggaggaggtg	5400
ggcggagtgt	gacgaggagg	gcgggaggga	ggatgcggg	agggggaggg	ggaggggggc	5460
cggccggccg	tgggggtggg	gcgatagtga	catcaccccg	gagtcggttt	ttaagcggcg	5520
gccggccggg	gacggggaaag	agagggatag	tcggagcag	gtggcgagtc	gctgagcccg	5580
ccgcggcccc	gagagcggct	gcagcccg	ccgcccggaa	ggagagggcg	aggcgcgccc	5640
gagccggccgc	cgcgcggcc	accgcgcgc	ccgcccaccac	cgccaccgga	gtcgccggcc	5700
agccgggcag	cctccgcggg	ccccggccgg	ggcggggggc	gcggccaca	ggccctgtct	5760
ccggccgtcg	tttgcagacc	gcgggcgcgc	atgtcgcccg	cgccccgtta	ggatgagtct	5820
cgggtcgggc	gaggagccgc	cgcagccgc	gcgcgcgcag	ccgcgggcag	gagcctcggg	5880
agccgcccgc	gccgcgcgc	ccgcccggcc	ggccccgac	gccgcgcgc	cgccccgggg	5940
cccccgacac	acatgagatt	cttcaggctc	actttcaagt	gcttcgtgga	ctgcttctga	6000
ctgcgcggcc	cgcgcggcc	accccgccgt	ccgcccgcgc	ccccgtcccc	cgccccggcc	6060
gccccccggc	ccccggccgg	cccgccccc	cgggccctc	cccggtgccg	ccggtgcccc	6120
ccgcctgacc	gccgcggcc	gtgaggcgcc	gcgaccccg	cccgccgtg	cgccccggcc	6180
ggccatggc	gaagaagagc	gccgagaacg	gcatctatag	cgtgtccggc	gacgagaaga	6240

114122.00153CA.seqlist.txt
agggccccct catcgccccc gggccgcacg ggccccggc caaggcgcac ggccccgtgg 6300
gcctggggac acccggcggc cgccctggccg tgccgccgcg cgagacctgg acgcgccaga 6360
tggacttcat catgtcggtgc gtgggcttcg ccgtgggctt gggcaacgtg tggcgcttcc 6420
cctacctgtg ctacaagaac ggccggaggtg agttcccccg cccgccccgg cctccctcccc 6480
cagcaggccc ccggcccccg cccgacccccc ggagccgcgg cggaggggtg aagtccgggc 6540
aacgggtggc ccccgccgcac gcgggggtcg gggccgcggc tcgtccgcgg ctgcccgtcg 6600
gtggccgggc cgggcgcctc caccggccctc gcagtcatgt gcctggcatg gtggggggag 6660
ggggccggcg atgcccgcga ggctgcggcc cagactcccg ggctgggagg agcgattggc 6720
cgcccgaggtg ggaaagcagg cctgcgcctt ggggtctccg cgaggttaagg agccctggct 6780
ccccccacgg gtcgggcaca caagcggcac attgtgtggg ccccccacgt gtgcacacac 6840
acgaacacac acacacacaa tgggcactc tgtccctccc cctgcgcctcc cctccctcg 6900
cgccccctccc gccccctcccc tctggcccg gcctggaaaca ctgggtgccc gagccaggct 6960
tgggaagcct gcggcctggc ccgcctggcg ccgcactgg acacactgca tgcacgtccc 7020
atgcccgcggc gcccgcggc ccgcggggc ccagcttagc aacagcgatg ggcacgcgtg 7080
tgtccctgtga ctacaaaaca gcactgggt tgctggaaagc cgaagtgacc cggtgatggg 7140
tggaaacag aggtccagag caaaggcctt tgcccaaggt caggagaagg atgctgggac 7200
ctggagtcag gcaagttgca gccaaagctca gcctctgagt agtggagcga gcccagccag 7260
ggcaaggta ggaggcccag agaggagaag gggtagtgg cacccagctc tccctgcct 7320
tctgccaccc ccaccccgac ctgctggcct caggagatag gcctgtgtca cgcctgcct 7380
atctcctgca gagcctgact ccctggcctt gctaaggccg gcctggccccc tcttccgcac 7440
ctgtatccct ctgtccttgc acatcgccat cccaccagca gggactgtg accccacccac 7500
cctctgcctt agacccata cttgcaggca agcgtccaag ggcaggacag tcgcgcctcc 7560
tgcccttggc tgagcccccc aggcctgatc acccagcctt ggcacacatg cacacatgca 7620
cgtccctca ctgtgctgcc tgaaacaggg aattgcagca cttagggacag cccgcgtgtc 7680
tgagcgtgtg tgtccctccat ggcacatcgcc ccaagtgacc gtgggggtgg aagccctggg 7740
ggccttagggc ccctctgcca cccagggaaat aggctccaa tggctcaggg gctactgttag 7800
cccccttca acacactcaa cccacccct caagactcca cctggggcct gagtcagtgg 7860
ccacccctac actgactcac ccagtcggaa gttgtatgg ggccttggc gtctgggctg 7920
gcccgcgtggg cctggggcagc ctggctgggg gcccacccctga gtccacgcgtg tgcctccacc 7980
cccaggtgtg ttccatttc cctacgtcct gatgcgcctg gttggaggaa tcccccatttt 8040
cttcttagag atctcgctgg gccagttcat gaaggccggc agcatcaatg tctggaaacat 8100
ctgtccctcg ttcaaaggtg agcagccctt ggcgcgcctc agggactgcc cccttccccc 8160

114122.00153CA.seqlist.txt

agctggctcc cacttgagaa atctttcct gtcgtgagca ccaggcctgg ggccacgtga	8220
tggcgcccc gtctcgaggg gggagcctgg aggagatgtt caggccgcac agcgaacttg	8280
gggaagcggg gactagaggg ggcataaggca gctccacaag gcaaggacag gccaggcata	8340
gccgggctgg ggacgggacc tgcccagcag cacccttggc tctctaggtt ggtcctactg	8400
ttactatccc caaggacgct ggggcacaga caggtggagc gacgtactga gtttgcccac	8460
tgcagggcgc actgtctcca acactacctc aggccactag aaacccccc ccccccacca	8520
ccaccatcaa caccagctgc tgaggactgg aggtactgg gtggccaggc agaggcttgg	8580
acctccttgg accgcattgg tggcagtggg acccacagaa ggggccaggt gtatgaggct	8640
ggagactcca cagcacttgg tcagatgggg acaggaggag aggggctcgc tctgccttgg	8700
gtctaggggg cggctggagg agaggagaca ggctggggag tcagcgcagt gttggggctc	8760
acacaagggg gagcccaagg gagtcaggag caccacaaac aaggctccag gaggacagat	8820
ggtgggagca cgcccgccct gggtggggac ataaagggggt ggcaggggaa ggtggccagg	8880
gaagaatcta catggcaagg acttcccgcc cccaggcctg ggctacgcct ccatggtgat	8940
cgttttctac tgcaacacct actacatcat ggtgctggcc tggggcttct attaccttgtt	9000
caagtccctt accaccacgc tgccctggc cacatgtggc cacaccttggaa acactcccgaa	9060
ctgcgtggag atcttccgccc atgaagactg tgccaatgccc agcctggcca acctcacctg	9120
tgaccagctt gctgaccgccc ggtccctgtt catcgagttc tgggagttag tccggcacct	9180
ctgggccaag cccatcccat ccccccaggc tccctcatgt tgcccgctc cagggagtg	9240
gccctgaggg ggcaccaggg tggccttgg cagtccatcc tggaccctgc ctgccccttgc	9300
ctgtccctgg agagtccctgg ggccaggcctc gctcctgggt tcggcagccg atcactgtcc	9360
tggtaactcc cccctgatgg gggagctggg gctgcatgtg aggtggatg ggagtggcct	9420
cccaatggcc agggatcgt gggctccagg cccagccaa ttggacaaga gggacccgct	9480
gaaccctggg ctgtgggaga gaaggagcc acaactcctg ggggtggacc ctgtggctcc	9540
atcctctgct ggcacaggcc tcatgggacc tccctccctc cccttaggaac aaagtcttga	9600
ggctgtctgg gggactggag gtgccagggg ccctcaactg ggaggtgacc ctttgtctgc	9660
tggcctgctg ggtgtctggc tacttctgtg tctggaaagg ggtcaatcc acgggaaagg	9720
taccactaga ggcatacgac ggggaggggtg gctcagccct gggagccgaa tgtctgtgcc	9780
aggcacaccc tggcaacgg gaggtgacca gacagagtct agccctaagg aagggggagg	9840
tactgaaagc caagcaatgc tccccaccct gcaaatccag ggcccaggcag ctttgctcc	9900
tggggataga ggccctggca ggcactgtcc ctccctgtg cccatcaccc ccactggc	9960
cctcctgcca gtctctgact cttgtgacag tctggtggac ctggcttggc catctgttac	10020

114122.00153CA.seqlist.txt
ctatcttgcc ttggggaccc agagcagagt ctggccacat ccctggggg ctcctggta 10080
ggctggggag tcacctgaac aaagaagaca gtgtcttagag ctgtggaca tggccagctc 10140
cctggggac aaggccccca gagcagcatg tggaagagg gggcagacag tgtggcagct 10200
gcatctcgcc tgcctctgcc tggccagtt ccactctcca cctgctcaac ccccacctct 10260
ctccagaaga ggagggggac ccgaccggta tccaatatcc cgctccctgc ctgggcctcc 10320
cacacctgca ctgcccacac actcatacag ctctcactcc ccacgtgctc cagccctcct 10380
gtccccactg aggagagctc ccagaggctc gcctgctccc caccgacacg cgtccctgca 10440
gacaaacgag gcgcggaggag agttccca ctgcacttgg ccaggctgc cggggcgcag 10500
ccttgccctc agttccctc ggcgggagcc atggctcgga ggacaatggg gacctctgaa 10560
catacctgcc cgcaggggg accggaggcg ctgggagtgg gggtgtgagg gaggtggtgc 10620
cacagccctcc gctgagcagc ctggccccc agatcgtgta cttcactgct acattccct 10680
acgtggccct ggtcgtctg ctggctgctg gagtgtctgc gcctggcgccttggatggca 10740
tcatttacta tctcaagcct gactggtaa agctgggttc ccctcaggtg aggtggaggt 10800
ggagaggctg cagcaggcg ctgcggggga gccctgcagg cccctcatgc ctgcgtctc 10860
cgcccttctc cttaggtgtgg atagatgcgg ggacccagat tttctttct tacgccattg 10920
gcctggggc cctcacagcc ctggcagct acaaccgctt caacaacaac tgctacaagt 10980
aagcaccgccc gccctgcccac ccgtgcctg tcctgcctg cccgcctg cccagcagcc 11040
taacccatcc actctggccc ctccacccct cagggacgcc atcatcctgg ctctcatcaa 11100
cagttgggacc agcttcttg ctggcttcgt ggtcttctcc atcctgggct tcatggctgc 11160
agagcagggc gtgcacatct ccaaggtggc agagtcaggt agggccctac cccagcccc 11220
gcctccagag cagcgagtgc tacccagatg catgatgtac aggaacatgc aatagaaatg 11280
ctgaaaatgc acgaggattc aaacggaaact tgtcagattt tgggcctgtg gggcagggtc 11340
ctgggatttgc tcaatgttga cagagaaagg acctcccgac ccctggcga cgaccagg 11400
ttgacagcgc ctctgaggca ggcgtggca tggcgcgag tggcgcaggc agggctcagg 11460
gtgcgcacag ggcaggacat cggctacaag gtctagagcc tgcaccccttcc cacaggggcc 11520
ggccctggcc ttcatcgcc acccgccggc tgcacgtgt atgccagtgg cccactctg 11580
ggctgcctg ttcttcttca tgctgttgct gcttggcttc gacagccagg tttgcattgg 11640
gctctgggac agggagccag gagggggcg gagggaggc tgcaggcaag gaaagggtg 11700
gagggcggtg cggggctcggt cctgagctgc cctggccaca gttttaggt gtggagggtc 11760
tcatcaccgg cctccctcgac ctccctccgg cctcctacta cttccgttcc caaaggaga 11820
tctctgtggc cctctgttgttgc gcccctgttgc ttgtcatcgat tctctccatg gtgactgt 11880
tgagtggggttgggggtctg cctgtgaccc tgggtggccg tctgccatcc tccctgactg 11940

114122.00153CA.seqlist.txt

ggctctgtcc	cccagggcgg	gatgtacgtc	ttccagctgt	ttgactacta	ctcgccagc	12000
ggcaccaccc	tgcctctggca	ggccctttgg	gagtgcgtgg	tggtggcctg	ggtgtacggt	12060
aggcatggc	tgagggctgg	gctggggat	ggtggcgggg	aaggcaggc	tccagcttgg	12120
ccctcccgcc	tcacacctgccc	gcaggagctg	accgcttcat	ggacgacatt	gcctgtatga	12180
tcgggttaccg	accttgcggcc	tggatgaaat	ggtgctggtc	cttcttcacc	ccgctggtct	12240
gcatggtaag	ggctggggga	ggtggggcag	ggcggggggc	gaggcaggc	ggggtagggg	12300
ccccatttaac	cgcagcattc	tggtccgtag	ggcatcttca	tcttcaacgt	tgtgtactac	12360
gagccgctgg	tctacaacaa	cacctaactgt	tacccgttgt	ggggtagggc	catgggctgg	12420
gccttcgccc	tgtcctccat	gctgtgcgtg	ccgctgcacc	tcctggctg	cctcctcagg	12480
gccaaggggca	ccatggctga	ggtaaggctc	ccgccccggcc	cgcctcccc	tcccctgctg	12540
tgaacattca	acccagcctg	cttccttagcc	agggagtgcc	cccgactagg	gtggcaggca	12600
gtgggaaccg	gagagaggca	gaggaagtca	ccgtggggac	gagcaggta	ccctggggc	12660
ttcagcatgt	cctcctctcc	tgcagcgtg	gcagcacctg	acccagccca	tctggggcct	12720
ccaccacttg	gagtaccgag	ctcaggacgc	agatgtcagg	ggcctgacca	ccctgacccc	12780
agtgtccgag	agcagcaagg	tcgtcggtt	ggagagtgtc	atgtgacaac	ttagctcaca	12840
tcaccagctc	acctctggta	gccatagcag	cccctgcttc	agccccaccg	caccctccca	12900
gggggcctgc	ctttccctga	cactttggg	gtctgcctgg	gggaggaggg	gagaaagcac	12960
catgagtgt	cactaaaaca	acttttcca	tttttaataaa	aacgcacaaaa	atatcacaac	13020
ccaccaaaaa	tagatgcctc	tcccccctca	gccctagccg	agctggcct	aggccccggc	13080
tagtgcccca	cccccaccca	cagtgcgtca	ctccctcctgc	ccctgccacg	cccacccct	13140
gcccacccct	ccaggctctg	ctctgcagca	cacccgtggg	tgaccctca	ccccagaagc	13200
agcagtggca	gcttggaaa	tgtgaggaag	ggaaggaggg	agagacggga	gggaggagag	13260
agaggagaag	ggaggcaggg	gagggcagc	agaaccaagg	caaataattc	agctggctta	13320
tacccctctc	cccatccctg	ttatagaagc	ttagagagcc	agccagcaat	ggaaccttct	13380
ggttcctgcg	ccaatcgcca	ccagtatcaa	ttgtgtgagc	ttgggtgcga	gtgcacgcgt	13440
gcgtgagttac	ggagagtata	tatagatctc	tatctcttag	caaaggtaa	tgccagatgt	13500
aaatggcgcc	tctgggcaaa	ggaggcttgt	atttgcaca	ttttataaaa	acttgagaga	13560
atgagatttc	tgcttgata	tttctaaaaa	gaggaaggag	cccaaaccat	cctctcctta	13620
ccactcccat	ccctgtgagc	cctaccttac	ccctctgccc	ctagccaagg	agtgtgaatt	13680
tatagatcta	actttcatag	gcaaaaacaaa	agtttcgagc	tgttgctgt	gtgagtctgt	13740
tgtgtggatg	tgcgtgtgt	gtccccagcc	ccagactgga	ttggaaaagt	gcatggtggg	13800

114122.00153CA.seqlist.txt
ggcctcgaaa ctgtccccac gctgtccctt tgccacaagt ctgtggggca agaggctgca 13860
atattccgtc ctgggtgtct gggctgctaa cctggcctgc tcaggcttcc caccctgtgc 13920
ggggcacacc cccaggaagg gaccctggac acggctccca cgtccaggct taaggtggat 13980
gcacttcccg cacctccagt cttctgtgta gcagctttaa cccacgttg tctgtcacgt 14040
ccagtcggaa gacggctgag tgacccaag aaaggcttcc cgcacaccca gacagaggt 14100
gcagggctgg ggctgggtga gggtggcggg cctgcgggaa cattctactg tgctaaaaag 14160
ccactgcaga catagcaata aaaacatgtc attttccaaa gcaggctcct gcttccgcct 14220
ctgctgctct aaggaagggg tcgggttaca ggaggcaggg ggaacctcct ccagctggag 14280
ctgctgccgt gagcaaggct ctgctctgga ggcctctgcg gccggcaccc ttctgggac 14340
tgggaagggg gcagggaaagg cagcagccca ggggaaggcc ttgtccccct ggagccgagg 14400
cagttgggaa gagcaggacg agagttagct ggagagcagc cacaccgcg gggaaagggtg 14460
ggcgtaaagc catgggtgct gaaattttca aaatgttacc ccaagaattt gtcactgaac 14520
agggtgccttgc tgcacttgg gccaggctgg tagcagcaga ggggataact ctgcattcagg 14580
gatcaatttt gaaggtggag ccaatagggg ttgtgcataa ccaggatgca gggctcaaag 14640
aggagttaaag gacaacagat ttggcctgag caagagggaa gatggagctg ccaggtcctg 14700
caatggggag gcaaggagag aatggcttgg agtcagccctt gggtgtgtca tgcaggaagt 14760
gtcatccaag tggagatgtc tagttggcag gtggacacag gagttccaga aagtactgg 14820
gatggaaactg tgcaagttct taccacatag agatgacact gaaagccctg agcctgagtg 14880
agctcacagg gaccccgcaaa gccccggaaac acaatgagag gggcagagcg aagacgtggc 14940
agtgataggg gaggacgcct gagagttccct ggtgggggtcc tgcaacctgca gccagtgg 15000
acccctcaca ggtcagggag gagcagtggc tggctccatc tgtccagtgc tgctgctgg 15060
gaaggacagt gacctgcaaa tgctcactga gtctggcaag ggtcacgggg gcctggcag 15120
ggtggcttgc atgagcggt gcgtgtgaaa ggctgggtgg tgtgcactg agaaaaggag 15180
tggcggcagc gcagtgtcat ctgcagacga agggagagac aacaacgttag ttcacccaga 15240
caaggaaata tgagccagcc tggaaaggaa aggcatcaca acacacgaca caacatggct 15300
gaccctggag ggcatttctg tgaaatgagc catcataaaag ggataacttgc tatagggttc 15360
tgctcctgtg agagagacag ggccttacat gagaggaggg agatccacag agacagaggg 15420
caagggtggg tgccaggggc tggggacagg gtggggagtg ttgagtgggg acagagtgtc 15480
agtttgagaa aataaattct agaggtggat ggaagtggtg gctgcacac actgtgactg 15540
cacttaatgc cactgaatttgc cacatttaac gatgggtgaaa atggctcatt acatatacac 15600
tgcacttgc atatatatgt atgatataa tgcgtttac catgagaaga ggtggagagg 15660
aattggagac actgagttaca gacaggtcct tcaacgggcg ggacccgtg cacaagatga 15720

114122.00153CA.seqlist.txt

gcatgtggca ccccaccctc aaagggttgg gcaccatggc agggcacagc aggcaatgca 15780
 gtgggcggct caggcaagca cagagagcat cagagattgg agcctgtgaa gggggagcag 15840
 gtgacccttc agagcaaagt gacagcttgg gctgctccct ttgcgtcctg cccaggactg 15900
 ctatcggtct atgggagaac ccccagaggc cctgctcctc agcaggcagc accccctatg 15960
 gaggggcttt acccctaaac ttctggagcc aggggaggga cctggcttgg aatacggcca 16020
 accaagagcc tgggtgagaa atacacggac cagacaggga gcagagaaag gagtggcagt 16080
 gcagtcccac cctagctcag ccaggggctc tgagcctgt cctgcagtcc ctggccccca 16140
 tctcttcagc aaccgctgtt tccagtttc ttttctccc tgagaagcct gtcctctcac 16200
 catgcctgcg ccttcaagaa ccccgcctgc tggcagctcc cacatctccg gcctggccct 16260
 ccttagctgc aaaggtgctt cccaacatca gcaagacctc tccccagggt gccccaggcc 16320
 ctcacacagc ccctgtcccc aaccgactcc aactgtcctg cagcccacag tcaccctcag 16380
 gacccttgag ctcaggccaa ctgcttata cactgtcagc caagtctctg cctggatgac 16440
 aatcaccctc tgctaattgt tctccgcacc tccaggccaa atgccctcca agccacctca 16500
 tgcaccacga tgacactaaa cacacagaaa aaagacattt aaaaaaggaa acttcacaga 16560
 ggcctgtcac ttaaagaggg tcctgaaata gagacaccat ttccctcagga cttagctcct 16620
 gcatcagggg ttaggacaca gagatcaaca agcagcaggc tttgcctca agcagctcgc 16680
 agtctagtgg aagatgggta agaaaacaga tcaggacgcc cacgggtgca gatgccctgg 16740
 aacagaagct gatccaggaa ggccgcagct gcaggccgcc ctccagtcta ggctggcaa 16800
 gcacctcaat tttcatctct aagagcctgt gcccacaccc cctgccccgt tttgttcca 16860
 tcactccact agaaaggcg ctccagaagc tggcctcgtg cagcttctg tctgctgctg 16920
 gcctaggcag aacagcggaa gaagccatca gggctggta gggaaagcacc cgtttggact 16980
 ttagcctttc aaagctcaga gaagggtgag ctcaggagg tccaaggtag ctgagagcac 17040
 ttccctggaaa agtgggatca gccttcggcc ttggcacacgc aaccagagg tatcgcccac 17100
 gtgtccctta ctccctcaga caccacctct cagaccgcct ggaaaggac agaactcgtc 17160
 atgaggcggc tgtgctctga gcacaaggaa agggcgacag gatgcttagag aagggAACCA 17220
 ctggcctggg cccggacagg gcaggcagaa gcgagcatgc acagcaggcc gtcagctacc 17280
 ctgccagcat caacatcctt caggggtccc cccagttcca ggagacacac ctctaaccctg 17340
 ctccccctgac cttccgccc agtcctcatg cagacaccag gcatggcaga ggccctgcag 17400
 ggtggaaagca ctgtgctgctg ggcggggct gccttcctca tgtgctactg gagagtagca 17460
 cagtgcaggg gcctgggcac tggtgccagg caggaagccc cggtactggc ctggcttgct 17520
 gtgggcctgg aagacacagc tctgagggag ccacgggagg gacaccctgg agccagcaca 17580

114122.00153CA.seqlist.txt

gcgctctggt	ggcaggcaca	cacccagcac	gttctcaggg	ccaaggccc	cagcccattc	17640
ccagcccctt	tctgccttagc	tctgccctgg	gccagctcca	ggtcactgcc	aaggacaagt	17700
ctccctctccc	agctggcatt	agtcaaggt	catcctgcaa	accttcgggg	gggggggcag	17760
ggagtgacta	gtggcggtct	gccacgttct	gtctgtccca	aatgtacga	acaggaaccc	17820
agagaaggca	agcgagtccct	ctacccggaa	gccccgccc	tttactgagc	ctcccaagct	17880
gcccacaccc	agggaggcag	acaggacaca	caactcggcgg	gtggccctga	agcgaggcct	17940
ggcccagccc	ggggagcagg	aggacagaga	gggcaaggcc	ttcgagaaca	ggtgtgagcc	18000
tggccttcag	tggggaaac	aggttgaagg	gctgtggccg	cttggggct	ccaggcagga	18060
gagaaagcag	agccctcccc	acagctgcag	tcacacaccg	caccacgtac	acaccatgac	18120
aacttttatt	gcctctaaga	gaaactccag	tccacctgct	ccacccaccc	tcctgcggga	18180
ccaaagaaaa	cacccagagg	gcaaaacaaa	aaggggctca	aaccaacagg	aagtcagccc	18240
caccgcaagc	cggactacaa	ctaactcgtg	ctctccacgc	tcaggcgtgg	aagccaaggc	18300
tgtgccagc	ctggccaggc	caagcaggat	gacagcaaac	gcattctgaa	cgtgttagcaa	18360
tcaggtcccc	tgtatgtgc	ttggagagtg	tggacaaggg	ccgagatgac	gagctatgag	18420
ctgtggaagg	gaatggggga	agcagaaggg	cacaaacaga	agtactggag	ggagaggcca	18480
ggctctcagg	aagcagcagg	cacgtgccag	gtggaagcca	gctgcaggca	ggggaggaag	18540
gaggccctta	ctcttccttc	ttgtccatgg	gaccatctac	tgcagcctgg	aaagggacag	18600
aaatcccaca	gcagtaggtt	ggccgggtcc	actcctcccc	tgccacctcc	agccccatgc	18660
cccagaggtc	cacctcggtt	cccctctctc	ctaacaacag	ctattcaagt	gaacaagggg	18720
ccccctcccc	agctgcaccc	aaaggcctgc	cagggtgaaa	gcgtcagccc	tggcccacgc	18780
tctagggaaa	gccctggacc	taacgccagc	cagggaggac	tgccaggacc	tcactggggg	18840
ctgagtcctg	gctgcaggga	acagcaaggc	atccagtccc	ttcaagacc	tgatcagacc	18900
cttcccaact	ctgcacacct	ttgaacaggt	gccctcgaag	cccatctgcc	aagcctgccc	18960
catacagagg	gcatgggtgc	ccccttgag	gctggaccct	tcctccccac	ctgctgtgg	19020
gcccaaactt	gggccaccaa	gcactgaggc	cagctgtcca	aagtttaggag	tatttatgtg	19080
gccctcaactc	ccaacgtcaa	gaccgcctgg	gtttccagat	gcggcctgg	gcacccaagc	19140
tagtctgagg	actcagatca	ggccttagggc	agcaggtgtat	ggccacaact	agcgccctgct	19200
agggaaaggtg	ccttttgac	actttgcc	ctcaacttgcc	cagggatctt	tgcctacgt	19260
cactccccag	caccctagga	aagaaggcca	gcagtggtc	ccagagttc	acctgcttct	19320
ttgttcttga	ccaggcccc	aaccatggct	gcgcctgagc	acgaaggtag	gaaggctcag	19380
agcctagtga	gccagtgcca	ctcctgaggg	ccgccttggc	aagtgcctac	atctgctgcc	19440
aggccacccccc	cctcctgccc	ggtgaagggt	cccactcagt	agggcagagg	tggccagggg	19500

114122.00153CA.seqlist.txt

gagtggtgga	gagggcagcc	agccccctggg	ccccttggaaag	gttccctccg	cacccgcagg	19560
ggctgcctca	tcctgctctg	ctctccctgcc	ctggggcgca	caatacggga	gggctgacct	19620
gcagctttgc	gtgctccctcc	agcaagcggt	cgtactcctt	ggtgaggccc	ttagactgct	19680
tccgcatggc	cagaacctgg	tttcagctt	tctctagttc	ttgaaatgat	gtaaatgacc	19740
aagaaaacag	aaacgaaaag	acaggaatta	gggggaaaaaa	acccgactgc	tacagacacc	19800
agaaaactggc	ccaaatctat	ctcaaacagag	gttatacagg	aggctacttc	tcaaaataaa	19860
gccccctctgc	tttgcaggc	ccccaaagta	gagggaaagg	gctgacaaaa	aagctcaaga	19920
taaagcaaaa	gaaacacaga	ggccatcccc	cagtcccttt	aatggagagg	aactctagtg	19980
gctctcggca	agggtAACCT	ccagggaggc	tgagagtggg	agacagggag	caagatccca	20040
gcctgcaagc	gagacccaat	gacaaccacg	ccttgcacac	agcagcagca	ggcgaggcct	20100
gtggtattgg	gggaaaacgc	cccagactta	agtctatgcg	tgggagacca	aagacaggca	20160
ggccgcttgg	gagccgcccc	ctccccctt	gaacgccact	cccacactcc	cctcattctc	20220
agccccccagg	catgctgggg	ctaccgtgcc	acactcttgg	cgggaaagcc	ccagcatgca	20280
ctgctctagt	gcagggcaat	cgaggcccac	caactgcagc	ctggttcctc	ctgagcccc	20340
ttcaaaccac	ttagcctcac	tggcctgccc	gctaagcatg	gctgcattgg	ggttggaggc	20400
gcaggggtgct	atttgtctgt	tttcagccag	ccctcgagcg	tgcgtcaag	gcttgttact	20460
aatactttgg	cacaaaatgg	gcagcagcgg	gcagaggagg	ctccttgg	cttccctgcg	20520
gggaaggaca	cgaggtcgag	cctcactttt	cttagtgctg	gccagctcg	ccttagctt	20580
ctgcaggta	gccttcaggc	tcctgttctc	ttcctccaac	ttcacccatg	cattcccgac	20640
atccaaacttgc	cctccgtcaa	cagcagctcc	ctgggaaaag	tgccaaaggc	cagggttact	20700
caggaggggag	ggagggagag	gttccagccc	catcctcccc	accgagctgc	ggttccctaa	20760
gctgccctgg	ccacacgccc	ttcggaaat	gtcaacgcgg	aaccgagcca	ccacttgctc	20820
ccagctccta	ggcaaaggcc	aggcgtggc	tgcccgccga	gggaaagaga	agcgccagcg	20880
gggccacctg	ctgcagctcg	ccgggcacgc	cttgcctgccc	ctggcccttg	gccccctggcc	20940
cctggccctg	cctccccc	aagcagcagg	gctcagcagc	tccatggtgc	tcaccaaccc	21000
ctccacagat	ggcggtgcct	cgtctccct	acatggtgcc	gctcactgca	gttaggagcc	21060
cccagtcggc	ctggccagct	ctatcccacc	tctgcatacc	catccctccg	agcttgcctt	21120
gcagctcacc	tcctgacggg	acgtctaaga	ctggccaact	accctcccc	cacccctct	21180
ccagcactga	gggatgccac	agaccccgag	ttccagaggg	ggtgcggcaa	tcttgcaggg	21240
aacaaggggcc	tagctgaggg	ctttcggatc	acagcagagg	gcctggctca	ctgagggggcc	21300
attttctca	gggaagggtc	taacttggaaag	cagtggatgg	aaacgagagc	agcaacaccc	21360

114122.00153CA.seqlist.txt
tcctcctcac ccggaccctc acacacagac gcctccagca ggcatactct ccccactgag 21420
gacttccct ctgcgcctcc acccaactct ggctttcag gcacattcc cagcgtgaca 21480
ggcttagcagt ggccactgag gccctgaaga atgtggctcc cacagtgtaa caccaggacg 21540
ccccatggtg ggtcgaaaag ctgggctcac cttcttgagc tggcattct cctccatgta 21600
cttcttggcc gcctcaactag cactctccgc ctgctttta aaggcttcat tggaggccag 21660
cagcgtggcc tgctgcgaaa tgagagtcac caggcgtcta agcaggctgc aattattac 21720
aaaaagaagg gagaagttag aaaaagagca tgaaggctg gcaggagcac ctcctggtg 21780
ctcccactcc acaccttagct ccagcctgga cctgcccctc tgccaaggca gccgagttag 21840
aagccgcca cctgggtctg gcagcgttag ggaaaaggtg gggcccagga gccgtccctc 21900
gccgctgtgc ccaacggcca ccctcagctc tcagaggggc tggaaagcagg agcctgggg 21960
gctggaaaga gcctcgctac agcatgaggt cccagaacgc ggcacttcc ggtcggggc 22020
ctagacgtgc cagacaagcc acagcaccac cttcctccct gcgaggctgg gttgccttg 22080
gtaaggtaac gagagaagct aatcaatcca agcacttcca acatgccagg ccgcattc 22140
acatctacct gatgaggaag ttactatcac tgccccagct tatagaagag gaaactgaag 22200
ttcagcagcg taaaatcaatg tacccaaggc caaaaaccag aaatggacat ggctggatt 22260
ccaaattatg tctgcctgac tccagaacct gagctcgaa ccactctgct ctctaaacta 22320
acagggaaaca gctcccaggt cccaacgtaa gatagaactc tcttcctgg ccagcctcc 22380
tcccaaccca tcatgcaggc tgcgctggaa cacatccgtt atgtaacagc accccgaatg 22440
aggctttctt gggctggagg gtgttagagga atcaggacac aggccaggc tgccctctg 22500
aagcagccag gagagacagg caaacaggtg gcagctggag gcagatgcta gtccccaaac 22560
agagattgga atggccactt cattttccctt gtttcaccct tgccccgaga ttttagctgg 22620
caggaagaga ggagggagg actcgtaaa acagtcaaaa caaggcaggg gttcccttct 22680
cacacaccc tcagacaagg ggtcacacag ggcctgggg aaggaagaga caaatctgct 22740
tagtccagag tgcttcaaca acagcttact cagaagagtc gaagtggcct cctgccccag 22800
ccaggccttc acacttcaca gcctctgctc atggccagg gcagccggaa agggctggag 22860
aaagtaaaga gcagacaagg tgagctacct ccctggccca agccatggct ctccaggggcc 22920
tcggcagagc ccctttccag atgtacttag gacagaaagt acccaccgg gccaggagac 22980
acccctgagg ttccctggttt ggggagaggc tcccaggggc ccctggcagc accaggagag 23040
ccaggccgtt gattcctggc agagaaggag agtttccagt gacatgtgct ttctaaaatt 23100
agcggcccaag gacctcgtagg ccttagggctc aggtttccct gcctcagccc ccagctgccc 23160
accagcctgc cccgcactgg gctacagcct gaaggtggag gaagctactg agcgccttag 23220
gagccagaga gaaacaatgc atctgactca catcgccatg gccagaagtc aatggagagg 23280

114122.00153CA.seqlist.txt

cctagaaaaga aaggcaagtc tgactaagac ccaggcccc ggcaaggagc tgcccagccc	23340
cagagcggat cccagtgtat tagaaagagg aagaggacg ctcccccag ctgaaattga	23400
ggggtgtgggg tcatgccacc tggtggtaga gagaggacca agcaagactg aaggctatac	23460
tccccgccac caggccaggc aagcgctgc tggtgagtgc ccatggctgt cacccagta	23520
cccagggaga tagctaacac aaatgttcc gcggcagtgc agcagaggcc cagctttt	23580
cggaccgtcc caggcccttc cggcgtattt agaaccaggc cttccaagat aggccaggc	23640
atacacaag tccagcgcaa gatccacgct gtgtgtgtcc gaaagcctgg ccctgctcag	23700
ccccagccca ggccttcagt tcccgccctt gagacagtct ggggctcccc tctgccaggc	23760
cccggttccc cttccctttt ccaaccctca caggcgctcc ccaccccccac agcacccccc	23820
gcataactcct cccactgcac cccagcccg atagttttt ttcacacctt cttaggtcctc	23880
tctcttcctg ctggatgacc cgggatcatt ctccccccag gaacctcacc ttcaactgcc	23940
tccttcctgg agtcaccctg cccaaagcccc tggtctttt cctccatata attcctcaac	24000
ctaggctggc caaggccctgc cttccaagc cagcagcagg gccaccagtgc gcctcctaac	24060
cgcccaggcc ggaggtcacc ctgaactcct tgctctgctg ctaagttacc ctccctgaggt	24120
ccccctcgcaa caccctccctt ccactgttat tctgctccct ctgggtctg cactctttag	24180
ctgacaccct atacccctt cccagccact cttatccccaa aagggtttt ctctgtggcc	24240
cagactcata cctaaccctcc tgctaaacat tggctccctgg atgtccccag agacattcta	24300
gactcagctt gtccaaaacg ggcctccct tgtcctgcct gacctgacca cctcgtgttag	24360
ccccctgctgt agtgggtggc aggcaaacg cttggactc agccctttt gccccagcc	24420
caagccacaa cccagcaactt tccatgtcaa ctgcaaacat gcccaccatc atccccactg	24480
ctggcgccctc ctccctatct gctgccatac ggctttccca tccacccccc agagcaaggc	24540
aaatccgacc atgtcagccc tctgcttaag ccacctgctg ccagcacgca tgccctcagt	24600
gagctccct ctttcaactaa ccacgtggcc ccctgctcta gtaacaccta accccctcacc	24660
attcctggaa cacgcctggc tctgtgtggc agttctccag gccgaaatgt cctctcgacc	24720
cagctcaatc ctcacccccc cccagaaacc cttttggatc tcccacccca tcagagggac	24780
gccttctggg ggctcctgca gcagcccccc aggcacccgc atgtaactac ctcattctt	24840
gttctctgctg tggctgccc cat ccgtttatat ggctgcccta ccaggctatg aaggctttt	24900
ggctggcact tgccttca tctctgact cccatacctg gcacactgaa aagggttctt	24960
ccgcccactc cagcaagtat agctaaaaaaa aaaaagggggg ggagggcgcg gggctggct	25020
tccagatgac tggatcccac tcccaggaga gaaaaatgctc cctgacaggt gaggggacag	25080
atttgaggct gcacgtaagg ctggacagaa tctccctggg cctagactgc acctgtgttc	25140

114122.00153CA.seqlist.txt
acctgggagc ctggcaccaa gaggggcaga ggcagacaca gagctgctca gtctagcaac 25200
agaggagaca gaagacagga gtggaaaggc gccgtctcg acccggtctg atgggcaagc 25260
caggctcatg gctgcagggg gaaaaaacat tcactgccgc gacctgaagg cacaacccag 25320
agctccagcc tctgcatttc cacaccctca acccccaccc agggcccaag caatgcagac 25380
caggtcctct ctgatcactg gcattttca gcctgggagc cagccttcta gaacatttc 25440
ccgctccctc acactgggtc actcaggcac gttAACGTGC gcttgtctgt tcccttgtag 25500
cttcccaggc ccccaggaca gggcacgaac atggcctta gttctgcct ctgctggatc 25560
tcccaagtag tcttacccga atcactgttc ttagctattc atttccagaa aacagggaaag 25620
aacctaagag ccaaaggcaa ctcctacaga tacagggtgg tcaccaatag aatggcctgg 25680
gttccaaaaa aaggccagtg aacgaaactt aacagaatcc agatgtggcc ttggaaagaca 25740
catggcagcc ccaatgcctc aatctgactg ggctttctt atagaatgtt gttggacact 25800
gagcagggtc atcgtgcttt tataaaaggt tgtagtaaacc agagaaggca ggagaaacag 25860
aacctctcca cagactagag aaacagggcc aaccatatca aatggagaga gccatggctc 25920
ataagcactt ttcagcagcc ctgtttccc ccatgagcaa gggaaagagg acacgggctt 25980
aatagggaaat ggagaaggag caagtcccga caaaaagatt ccatgctgtg gccaccccg 26040
gccccccctg ctgacgggtt tcaggcgagt caagtatttc aaccccccagc ccctgcatac 26100
acatgggttt cacataagct cactcctcg ccccccagcc gcagaaagcc ggtgtcccg 26160
cgccacctgc tgactttcca ggcctaccgc agggtgccca gtggactctg ggtgaacacg 26220
ccccagctgt ggaagaaaaa aaatgaggca ggcgcaggc aaggaagcaa gtcaggtgac 26280
gcctcaggaa ggcttcagtg aagaagaatg actaacacca gggctccac tgccctcagc 26340
gactcttacc caccagtctg gaatcagggaa aacaggttac aactgggaga gtcacctaga 26400
gcagaccga gaaggctgcc ccaaagggtc gccccaaagtc cattttggta cagctgcgtg 26460
gccttcctg tagcctccca gcacacagac gctggagaag acgggaagag gagggctaga 26520
gctggggaaa atggaggccg tttcaatga gaacatgact tgtggcagct ccagcccacg 26580
acccagatgg agctcaccca tcctgaggac agtgcactaa ggcgcaggc aaggggcagg 26640
tgtgggtctg gcctgtcctc cttcttctt gagaaaaactt gacacagacc agctgggttt 26700
ctggggtttt gctgtgtatc tttttaaaa ccagctatct gaggggtttg gggtaagctg 26760
gagggtagag agcaaccgac tgaggttaga caacttaggc aaaggtagtc tgtgattaga 26820
tgactcaacc taaaaaagaa gaaaaagcag ctcagcagag aagcacggc agctccatct 26880
gggctaattgg cagcgatggg attctaccct ggaggggtaa agagggaaaca aaagatgcct 26940
gtggatcaag ttcaggtcag caaaaattca gggggcttcc acacaaacag gggccttcct 27000
gcgactggct gctaaccgac actttgggcc taaccttgac cgctttaa gctgagtaag 27060

114122.00153CA.seqlist.txt

gcagagaagg cagtgcaggt cctctgaaca cacaaacccc agcccagagg gagctgccgt 27120
 ccccaacaca ctccaagact caagagggcc tctcgctagc tgtccccccg aagtgcagg 27180
 ttggcaggaa gsgaacagga gcgactgccg gagtcttcca caagtggaaa ccagtggctc 27240
 atccagtgtg gtccccctgga ggtggccccc atggacccgc cttcacaaac tgtcatagct 27300
 cctaagacct gaaaagctgg gcttcttggc taaaaagccc aacaagttca acccaggcac 27360
 gcacctaag ctgtcgccgt cagccccggc cagccccattc agtcaccaaa tgtttcagcg 27420
 cccttcataat gtgccaggcc cttggcactg agctgaacag tctgaagggg aagagccag 27480
 gttttccacg atgggcaacc ctgccaagtg ccacacctca gagctgcgtg tgcaggctgc 27540
 cctgggaccc gaggacagcg ctatgggtca gccgggaaca tggtgtggc ccctcggaac 27600
 aggctccaca gggaaagcctc ggagattcac gaagaggagg tgccggctgg gccggcagct 27660
 ggagggggtg ttccgcacag aggtccccaa aatgctcaga gaatcgagtt gggggagagc 27720
 atgtgttacg tgaggctctc ccatgagacc cacatgactg cttcatgaca gggggaggcc 27780
 gaagcagaga ctgtggggga gccgcgtcct ggaggatcca tgtgatagcg agccactgga 27840
 agtggggtgc acaggccaaa ggggggaagg caggtggcag ggagcccgct tggctatac 27900
 gggatggtgg tggcccccacc acagcagtgg tcccaagggt tgtgagagag aggcttagga 27960
 ggtgacatct acaggctgtt tcatgggtgg agtccagctc tgcaggctga agacttctgg 28020
 aggttggcta cttgacaccg tgaaagcgcc tcaccctgct gggccacaca ctgagaaatg 28080
 gccacgatgg ttggcagtc acatgggaca agaagaaagg gcagagcagc cccaggcttc 28140
 tgggtcaagt gacaggactg agacagtagt ggccagaggca ggacaaaagc tcagaaggct 28200
 ttggctggga agctggact ctcccactgc tatcccaggc agcagcagca gactatgggg 28260
 ggccaagggt acagacttgc ttcttaggtgt gatgtttcct ttcagggccag gcccccttgc 28320
 ccaattacaa aggctactcg ggagctctca ggctaaccctc ctatgttgc tgagcccagt 28380
 cccgctgaaa actagtgcc agcaccaggc cttctccaga atgtgctccc ctccctggcc 28440
 actaacctgc tcacatcctc cttcttgatc ttgcttccct cttccctctg ctccccgatc 28500
 ttctatcgct ctgctggagg ctggaatcca tcctgcccagc acattccctt tgccctggcc 28560
 tcaatgcctc tgaagccagc aacccaagct cgactgcccg gaagcacccct atccctgctca 28620
 tctgccaggc ctccccctgct caaccctgct ctccctgtcc cttcccttcc ttgctgcccc 28680
 caggcctggc cagaagtccc actctgcaac cagccctcac acctagcacg atagtgttac 28740
 tccatggca gccagagctc cctttccagc agggggctgc gtcctcgcat tccgcaagtc 28800
 cacagcagaa ccaagatcat ctcagactcc cagagactgg aaaagcctgc tgattcaact 28860
 ccacctggc ctctcagctc tgtccccctcc accccacttc tactaccact gtaccactgc 28920

114122.00153CA.seqlist.txt

ccccgttcag gttcccagca agtctcaactg acaacacctca acttggctc cccacttcag 28980
gctctcctgc tccactccaa cccatacaccc cttgcaaaat gtaatccac acagggtact 29040
gcatgccagc agtactggaa tacccactag gcaggctctc taccacgcag aaaagttgca 29100
tacgaagtct ggaaccctta actcctaacc atctaaccctg ctcgggccat gagtacctgc 29160
tcgcgccatg agtacctgct cgcgttcaag aactgagcct ctcagtggaa cataaagaac 29220
atggaaagaa agagaggtgg gtgtggtggc tcatgcctgt attccagca ctttgggagg 29280
ccgaggtggg cagatcacat gaggccagga gtcagagacg accagcctgg ccaacagggc 29340
aaaaccgtct ctactaaaaaa tacaaaatt agccaggcggt ggtggcatgt gcctgttagtc 29400
ccagctactt gggaggctga ggcatgagaa ctgcttgaac ccaggaggag gaggctgcag 29460
taagccaaga ctgtgccact gcactccggc ctcagcgaca cagagagact ctgtctcaa 29520
aaaaaaaaaaa aaagaaagaa agaaagaaaa agaaaaagaa aaaaatcaac agcaacaaaa 29580
aagaaagaga cagataatag gagtggcatg ggtgctccaa gaggatcagg aggcccaaag 29640
aaagctgact agctgaggcc actgtttatg acatcagaaa cagagctgca ggctcgacat 29700
ccaccaatga ggaattgggt agacactcaa gaacactcaa gaacgctgga gaggccaggc 29760
acagtggctc atgcctgtaa tcctagcaact ttgggaggat gaggtgggag gatttcttga 29820
gcccagcagt ttgagatcag cttggcaac agagcaagac tctgtctcta caaaaaatta 29880
aaaaattagc agcacgtggt ggcacatgcc tatagtccca gctactcggg aggctgagggc 29940
aaaagggcgg ggctgcagtg agccatgatc acaccaatgc actccagcct gggtcatgga 30000
gcgagacctt gtctaaaaaa aaaaaataaa ataaataaat aaataaatat gctggaaaca 30060
ggtcagttgt cccagaaaaa cattcatgat aaactgagta gaacactcaa gtcaccaagg 30120
ggcatttaaa gcatgtggtg cttaaaagcc ccgtggttaa cttttttaa acacgggaat 30180
gtttttaaaaa agcatgtgga ggctggcggt ggtggctcag ctgccgcact ctcctgttt 30240
cccatccagt agcctgatcc aaaaaagcca tgaggttggt cttgcgtgac ttcttagaaa 30300
aggaaacggt gatcccagag atcagtgtgg attcaccagt tgccataag cgatctagtt 30360
aatcatttct ggaattttgc cagaaatata tactccttgc tagtctaaga gttaaatcta 30420
agatggtggc tgtgacccta gaggaccttg gctttctgtg tgatgcttt gtccagcctt 30480
atggccacac agcccatgg cagcttgcag gaaacactga aaaaacaaag caggccaggc 30540
gcggtggctc acgcctgtga tcccagcaact ttgggaggct gaggcaggca gatcacctga 30600
gctcaggagt ttgagaccag cctggccaac atggtaaac cccgtctcta ctaaaaatac 30660
aaaaaaattag cagggcatgg tggcgggcgc ctgttagtccc agctacttgg gaggctgaga 30720
caggagaatg gcgtgaaccc gggagacaga gcttgcagtg agccgagatc gagccactgc 30780
actcctgcct gggcgacaga gtgagactct gtctaaaaaa aaaagagtga gcccccttaag 30840

114122.00153CA.seqlist.txt

gcttctatgt gtatgtgtgg atagagccaa tccacatggc agccactcat gtgggtagg 30900
 accacaccta actacactgt tctgccagca ccttccccac acttcggcat ctggcgta 30960
 agaacagact cagactggca agcatcatgc taaaaatcca tctacactcc atctataga 31020
 ggctgacaga acttctccag gaattcacag cagtcaccaa tgatcccgt cttctttcc 31080
 aaaagcatac aagctattct ttcttagagca tggctggaga tcaaagtcaa ccctccccag 31140
 gtcaattcct catctacctt ctcctccctt tggaaattgg gatgttgcc aggctgcagt 31200
 ctgccagttat ctctccact ctgcaaatcc tcaagcatcg gtggcaatgc cttctgcaga 31260
 ttagtctcaac agcttctggaa cataatctca tcaagtacat ccttaggga tgccactctt 31320
 gcccacctgt aatttccatt ttctcatcctt agtgttcctt ttgcccgttga ccacctaccc 31380
 tccatctcct tccttacaca gacatataaa agggactgcc ttctccctcac ttctccatgt 31440
 ctttcatgat tcagagctcc cgccagggtt tcaccttccc gatactattc tttttttttt 31500
 tttttttttt tttttagatg tcacccaggc tggagtgcag tgggtgtatc tcggctcact 31560
 gcaacctctg cctcccggtt tcaagcaatt ctcctgcctc agcctcccgta gtagctggca 31620
 ctacaggcac ctaccaccaa gcccagctaa ttttttgtt ttttttagtag agactgggtg 31680
 tcaccatgtt gcccaggctg gtctcgaaact cctgacactca ggtgatccac ctgcctcggc 31740
 ctcccaaagt gctgggatta caggcctaag tcaccgcacc cagcccaccc ctccccccata 31800
 ccattcttaa agctctagat gctttctgg tagatggcct agtttctctt cttccctctt 31860
 caatgtggtc tttttccctc attttgcgtt ctgtcacact cagaattctg gttttgagac 31920
 tcagtccttc agatctgctt cccttcagc ctcagaccac aagataatac ttgtttggaa 31980
 cttcctgaaa aatttagggt atgtgtctga ctcctccctt cttccctgac tttcccttaagt 32040
 ttgaagacag caagcttgcgtt gatcaaatttctt gtgatcaaacc ccaattatctt gaaaaaaaaatg 32100
 tggtttgcctt ttcttagctcc accccctctt ccaactgggt cgccaggagt accagatcat 32160
 ctaaacaaca gattttaaaga caagtagtca tcgttagcgcc tagtaaagca ggacacacca 32220
 ggtgactaga gagcaagaat ctcctaggca tggagattct tgagtctcggtt ggcacaaaac 32280
 caagtgggaa ataactgtcc atgagcctga gaatcacttg gtgctatgggt ctgagtgcctt 32340
 ttccaaacttc atgtgttgaa atttaatccctt cactgcccgtt gcattaagag gtggggcttt 32400
 ttgagaagtgtt attaagtgtt gagagctcca ccctcaaaagc aagccctttt ccaatgcctt 32460
 catabatgggt ctgagctccc atccacctcc cagccaggcc ctgctgatca gaacggctat 32520
 gtgaagcagg aggcagcaaa cagggcccca ggctcaaata ggcacttcgtt agtggtctag 32580
 ttttgccttga ctagttaccc tttagccttga ttaaggtaact tagtttacc aaaaaaatca 32640
 tcagaaatac tctggctgcc atgaaatgtt acatgtccctc attacgagtt tcacgtgggg 32700

114122.00153CA.seqlist.txt
aaggccctga ggtgaggaga ggcccagcct cttcggtcca ctttacactg ctgtccctag 32760
gtcaacaccc cgacacacaaa gagtccccca ttcaagtgcct cccttgtgag ctggactctg 32820
aaggtcctct cccagaggag ggcaaggcct taccgttaca tctcactctc catgcaaaca 32880
gaccgtgaga tagtcatctg tttgcctgag agtatgtggt gtgtgagggt cttctgatat 32940
ttcaggcagc cctctcctac tctccacgct gcctctggag gtcaggagaa aactatgtgg 33000
cttccctaac acagacaggg ctt 33023

<210> 20

<211> 510

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (430)..(430)

<223> n=A or C or G or T or U or unknown or other

<220>

<221> misc_feature

<222> (478)..(478)

<223> n=A or C or G or T or U or unknown or other

<400> 20
atttataaat ttattgcctg ttttattata acaacattat actgtttatg gtttaataca 60
tatggtcaa aatgtataat acatcaagta gtacagttt aaaattttat gcttaaaaca 120
agttttgtgt aaaaaatcgc agatacattt tacatcgca aatcaatttt taagtcatcc 180
taaagattga ttttttttg aaatttaaaa acacattaa tttcaatttc tctcttataat 240
aacctttatt actatagcat ggtttccact acagtttaac aatgcagcaa aattcccatt 300
tcacggtaaa ttgggttta agcggcaagg ttaaaatgct ttgaggatcc tgaatacaccc 360
tttgaacttc aaatgaaggt tatggttgtt aatttaaccc tcatggcata agcagaggca 420
caagttagcn ggcattggc tctagactgg tagagccgag ccaccggta gaagcaangg 480
acagcagcag gaagagccat gggacccccc 510

114122.00153CA.seqlist.txt

<210> 21

<211> 60

<212> DNA

<213> Homo sapiens

<400> 21
ttaatcctgg aaattgtat tgtgacccat gagtggagga actttcagtt ctaaagctga 60

<210> 22

<211> 60

<212> DNA

<213> Homo sapiens

<400> 22
aagttgtata gtaaaggcatt aggagggtca ttcttgcac aaaagtgcac ctaaaacagc 60

<210> 23

<211> 60

<212> DNA

<213> Homo sapiens

<400> 23
aaggccctct tggttttggaa gagaaagaca agttatgagt agctgctacc ctggaacgg 60

<210> 24

<211> 60

<212> DNA

<213> Homo sapiens

<400> 24
ggtgtggataa tcgagtttca gtgacccacg tcagttacac attaaagcca gaccccatga 60

<210> 25

<211> 60

<212> DNA

<213> Homo sapiens

114122.00153CA.seqlist.txt

<400> 25
gtacttaatg ttatccagta ttgttcatta aatggtgtta tcctaaagct gcacttggga 60

<210> 26

<211> 62

<212> DNA

<213> Homo sapiens

<400> 26
gaaagcactt ttagggaa ctttagtaag ttcttctcat ttcattatgt ttcttccaag 60
ga 62

<210> 27

<211> 57

<212> DNA

<213> Homo sapiens

<400> 27
tcgtacaatc taccaaccaa ccagtgctga agagattta gaaccttgta acataca 57

<210> 28

<211> 60

<212> DNA

<213> Homo sapiens

<400> 28
ttgtctacgt tgaaagcatc tgccgtgtag aaacgttatac catgtccgga aagattctgt 60

<210> 29

<211> 57

<212> DNA

<213> Homo sapiens

<400> 29
ttcaggcac cctcaaatac cactctttt aggcaaaaca ggaaacttct taagtga 57
Page 58

114122.00153CA.seqlist.txt

<210> 30

<211> 58

<212> DNA

<213> Homo sapiens

<400> 30

aatattagag gatactttgc tgtgcacaat tccaagtgcc tttagaacatt gtttagct 58

<210> 31

<211> 60

<212> DNA

<213> Homo sapiens

<400> 31

agaatattgc ctagccaaa tgaacaaagt tttagcctaaa tctctgttagc atgcaaatca 60

<210> 32

<211> 58

<212> DNA

<213> Homo sapiens

<400> 32

aggaaacctt cgaatctgag aacttccaca cctgaggcac ctgagagagg aactctgt 58

<210> 33

<211> 62

<212> DNA

<213> Homo sapiens

<400> 33

tggccccaaa tttgctattc ccatgcattt tgtttgttc ttcacttatac ctgttctctg 60

aa

62

<210> 34

<211> 60

114122.00153CA.seqlist.txt

<212> DNA

<213> Homo sapiens

<400> 34

accacatgca catccttact acagaatccg tcctttcatt tcaacttata gcaagctatg 60

<210> 35

<211> 58

<212> DNA

<213> Homo sapiens

<400> 35

ttaactacct caactggtca gaaacacaga ttgtattcta tgagtcccag aagatgaa 58

<210> 36

<211> 60

<212> DNA

<213> Homo sapiens

<400> 36

aggagtatgc tgtttcctg gcactcatca ctgtcatgtc caatgacttc ttccaggct 60

<210> 37

<211> 59

<212> DNA

<213> Homo sapiens

<400> 37

gggttaagagt ctttgtttt attcagattg ggaaatccat tctatgggtt gaattggga 59

<210> 38

<211> 60

<212> DNA

<213> Homo sapiens

114122.00153CA.seqlist.txt

<400> 38
tgcatgtcgt gaccaactag acattctgtc gccttagcat gtttgctgaa caccttgcgg 60

<210> 39

<211> 60

<212> DNA

<213> Homo sapiens

<400> 39
atagatctaa ctttcatagg caaaaacaaaa gcttcgagct gttgcgtgtg tgagtctgtt 60

<210> 40

<211> 56

<212> DNA

<213> Homo sapiens

<400> 40
aggtgttattc aggatcctca aagcattta accttgccgc ttaaaaaccca atttac 56